1990 FRUIT TREE CENSUS

PART II

TENDER FRUITS

Ministry of Agriculture and Food
ONTARIO

1990 ONTARIO FRUIT TREE CENSUS

TENDER FRUITS

prepared by
Patricia Bany, Statistician
Policy Analysis Branch
Ontario Ministry of Agriculture and Food
November 1991

92-02939/

1990 ONTARIO FRUIT TREE CENSUS

TABLE OF CONTENTS

Table		Page
	Foreword	v
	Map of Census Districts	vi
	Census Techniques and Definition of Terms	vii
	SECTION I - APRICOTS	
1.	Apricot Trees in Ontario, 1981-1990	1
2.	Apricot Trees by Age Group and District, Ontario, 1990	1
	SECTION II - SWEET CHERRIES	
3.	Sweet Cherries, Estimated Area, Production and Farm Value, Ontario, 1985-1990	2
4.	Sweet Cherries, Marketed Production, Ontario, 1985-1990	2
5.	Farms Reporting Sweet Cherry Trees by the Number of Trees on Farms, Ontario, 1990	4
6.	Sweet Cherry Trees in Ontario, 1971-1990	4
7.	Sweet Cherry Trees by Variety and District, Ontario, 1990	5
8.	Sweet Cherry Trees by Variety and Age Group, Ontario, 1990	5
9.	Sweet Cherry Trees by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990	6
10.	Sweet Cherry Trees by Variety and Age Group, Central Ontario and Georgian Bay District, 1990	6
11.	Sweet Cherry Trees by Variety and Age Group, Niagara District, 1990	7
12.	Sweet Cherry Trees by Variety and Age Group, South-Western Ontario, 1990	7
	SECTION III - SOUR CHERRIES	
13.	Sour Cherries, Estimated Area, Production and Farm Value, Ontario, 1985-1990	8
14.	Sour Cherries, Marketed Production, Ontario, 1985-1990	8
15.	Farms Reporting Sour Cherry Trees by the Number of Trees on Farms, Ontario, 1990	10
16.	Sour Cherry Trees in Ontario, 1971-1990	10
17.	Sour Cherry Trees by Variety and District, Ontario, 1990	10
18.	Sour Cherry Trees by Variety and Age Group, Ontario, 1990	10
19.	Sour Cherry Trees by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990	11
20.	Sour Cherry Trees by Variety and Age Group, Georgian Bay District, 1990	11
21.	Sour Cherry Trees by Variety and Age Group, Central Ontario, 1990	11
22.	Sour Cherry Trees by Variety and Age Group, Niagara District, 1990	11
23.	Sour Cherry Trees by Variety and Age Group, South-Western Ontario, 1990	12
	SECTION IV - NECTARINES	
24.	Farms Reporting Nectarine Trees by the Number of Trees on Farms, Ontario, 1990	13
25.	Nectarine Trees in Ontario, 1971-1990	13
26.	Nectarine Trees by Variety and District, Ontario, 1990	13
27.	Nectarine Trees by Variety and Age Group, Ontario, 1990	13
28.	Nectarine Trees by Variety and Age Group, Eastern and Central Ontario, 1990	14
29.	Nectarine Trees by Variety and Age Group, Niagara District, 1990	14
30.	Nectarine Trees by Variety and Age Group, South-Western Ontario, 1990	14

SECTION V - PEACHES

31. Peaches, Estimated Area, Production and Farm Value, Ontario, 1985-1990 15
32. Peaches, Marketed Production, Ontario, 1985-1990 15
33. Farms Reporting Peach Trees by the Number of Trees on Farms, Ontario, 1990 17
34. Peach Trees in Ontario, 1971-1990 17
35. Peach Trees by Variety and District, Ontario, 1990 18
36. Peach Trees by Variety and Age Group, Ontario, 1990 19
37. Peach Trees by Variety and Age Group, Niagara District, 1990 20
38. Peach Trees by Variety and Age Group, South-Western Ontario, 1990 21

SECTION VI - PEARS

39. Pears, Estimated Area, Production and Farm Value, Ontario, 1985-1990 22
40. Pears, Marketed Production, Ontario, 1985-1990 22
41. Farms Reporting Pear Trees by the Number of Trees on Farms, Ontario, 1990 24
42. Pear Trees in Ontario, 1971-1990 24
43. Pear Trees by Variety and District, Ontario, 1990 24
44. Pear Trees by Variety and Age Group, Ontario, 1990 25
45. Pear Trees by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990 25
46. Pear Trees by Variety and Age Group, Georgian Bay District, 1990 25
47. Pear Trees by Variety and Age Group, Central Ontario, 1990 26
48. Pear Trees by Variety and Age Group, Niagara District, 1990 26
49. Pear Trees by Variety and Age Group, South-Western Ontario, 1990 26
50. Farms Reporting Pear Trees on Standard Rootstock by the Number of Trees on Farms, Ontario, 1990 27
51. Pear Trees on Standard Rootstock by Variety and District, Ontario, 1990 27
52. Pear Trees on Standard Rootstock by Variety and Age Group, Ontario, 1990 28
53. Pear Trees on Standard Rootstock by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990 28
54. Pear Trees on Standard Rootstock by Variety and Age Group, Georgian Bay District, 1990 28
55. Pear Trees on Standard Rootstock by Variety and Age Group, Central Ontario, 1990 29
56. Pear Trees on Standard Rootstock by Variety and Age Group, Niagara District, 1990 29
57. Pear Trees on Standard Rootstock by Variety and Age Group, South-Western Ontario, 1990 29
58. Farms Reporting Pear Trees on Quince Rootstock by the Number of Trees on Farms, Ontario, 1990 30
59. Pear Trees on Quince Rootstock by Variety and District, Ontario, 1990 30
60. Pear Trees on Quince Rootstock by Variety and Age Group, Ontario, 1990 31
61. Pear Trees on Quince Rootstock by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990 31
62. Pear Trees on Quince Rootstock by Variety and Age Group, Georgian Bay District, 1990 31
63. Pear Trees on Quince Rootstock by Variety and Age Group, Central Ontario, 1990 32
64. Pear Trees on Quince Rootstock by Variety and Age Group, Niagara District, 1990 32
65. Pear Trees on Quince Rootstock by Variety and Age Group, South-Western Ontario, 1990 32

SECTION VII - PLUMS AND PRUNES

66. Plums and Prunes, Estimated Area, Production and Farm Value, Ontario, 1985-1990 33
67. Plums and Prunes, Marketed Production, Ontario, 1985-1990 33
68. Farms Reporting Japanese Plum Trees by the Number of Trees on Farms, Ontario, 1990 35
69. Japanese Plum Trees in Ontario, 1971-1990 35
70. Japanese Plum Trees by Variety and District, Ontario, 1990 35
71. Japanese Plum Trees by Variety and Age Group, Ontario, 1990 36
72. Japanese Plum Trees by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990 36
73. Japanese Plum Trees by Variety and Age Group, Central Ontario and Georgian Bay District, 1990 36
74. Japanese Plum Trees by Variety and Age Group, Niagara District, 1990 37
75. Japanese Plum Trees by Variety and Age Group, South-Western Ontario, 1990 37
76. Farms Reporting European Plum Trees by the Number of Trees on Farms, Ontario, 1990 39
77. European Plum Trees in Ontario, 1971-1990 39
78. European Plum Trees by Variety and District, Ontario, 1990 40
79. European Plum Trees by Variety and Age Group, Ontario, 1990 40
80. European Plum Trees by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990 41
81. European Plum Trees by Variety and Age Group, Central Ontario and Georgian Bay District, 1990 41
82. European Plum Trees by Variety and Age Group, Niagara District, 1990 42
83. European Plum Trees by Variety and Age Group, South-Western Ontario, 1990 42

APPENDIX - TABULATIONS FOR OTHER VARIETIES OF TENDER FRUIT TREES

84. Sweet Cherry Trees by Variety and Age Group, Other Varieties, Ontario, 1990 43
85. Sour Cherry Trees by Variety and Age Group, Other Varieties, Ontario, 1990 43
86. Nectarine Trees by Variety and Age Group, Other Varieties, Ontario, 1990 44
87. Pear Trees by Variety and Age Group, Other Varieties, Ontario, 1990 44
88. Peach Trees by Variety and Age Group, Other Varieties, Ontario, 1990 45
89. Japanese Plum Trees by Variety and Age Group, Other Varieties, Ontario, 1990 46
90. European Plum Trees by Variety and Age Group, Other Varieties, Ontario, 1990 46

FOREWORD

The Fruit Tree and Grape Census is conducted in Ontario every five years through the joint efforts of the Ontario Ministry of Agriculture and Food (OMAF), the Ontario Apple Marketing Commission, and the Ontario Tender Fruit Producers' and Grape Growers' Marketing Boards. Data for the census is collected from all commercial growers by mail questionnaire. Every effort is made by those involved to make this report as complete as possible.

The results of the 1990 Census are being published in three parts and effort has been made to include as much informative and timely material as possible for the various crops. This publication presents the number of apricot, sweet cherry, sour cherry, nectarine, peach, pear and plum (European and Japanese) trees reported in the Census, whereas another publication deals with grapes and a third with apples. We trust that growers will find this report of value in deciding future plantings and also that industry personnel responsible for making crop forecasts will find this an up-to-date base for predictions.

The 1990 Tender Fruit Census was collected through the horticulture crop advisors of the Plant Industry Branch of OMAF. The horticulture statistician of the Policy Analysis Branch was responsible for the mail out and tabulation of Census schedules and preparation of statistical tables.

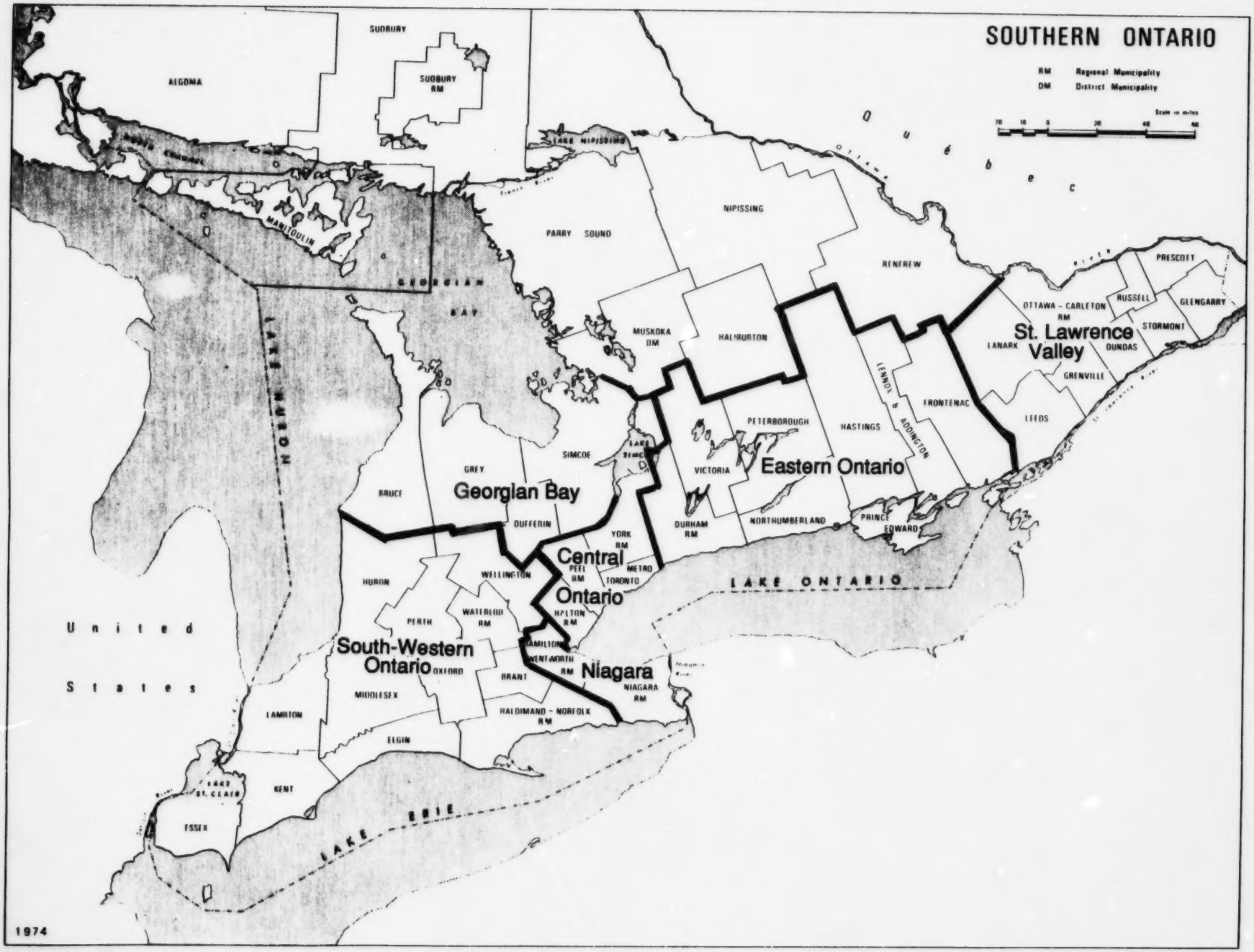
In this report, reference is made to the Census years 1971 through 1986. Wherever possible, the format established in 1971 and continued in later years is followed again in 1990 to facilitate direct comparisons. Variations in the 1990 Census are as follows: nectarines have been broken down by variety, pears by rootstock (Quince and Standard) and alterations were made to the age groupings of sweet cherries.

For purposes of this Census, the province of Ontario is divided into the following six districts:

1. **ST. LAWRENCE VALLEY** - Counties of Prescott, Glengarry, Russell, Stormont, Dundas, Grenville, Lanark, Leeds, and the regional municipality of Ottawa-Carleton.
2. **EASTERN ONTARIO** - Counties of Frontenac, Lennox and Addington, Hastings, Prince Edward, Peterborough, Northumberland, Victoria and the regional municipality of Durham.
3. **GEORGIAN BAY** - Counties of Simcoe, Dufferin, Grey and Bruce.
4. **CENTRAL ONTARIO** - Regional municipalities of York, Peel and Halton.
5. **NIAGARA** - Regional municipalities of Niagara and Hamilton-Wentworth.
6. **SOUTH-WESTERN ONTARIO** - Counties of Wellington, Perth, Huron, Brant, Oxford, Middlesex, Elgin, Lambton, Kent, Essex and the regional municipalities of Haldimand-Norfolk and Waterloo.

Note that in this publication, the district of Niagara is the summation of the regional municipalities of Niagara and Hamilton-Wentworth, whereas in 1986 it consisted of the regional municipalities of Niagara, Hamilton-Wentworth (south of Highway 99), and old Haldimand county.

Appreciation is expressed to the growers who took the time to accurately complete and return the Census questionnaire. This Census can only be as complete and accurate as the cooperation received from growers.


SOUTHERN ONTARIO
RM Regional Municipality
DM District Municipality
SUDBURY
SUDBURY RM
ALGOMA
MANITOULIN
GEORGIAN BAY
LAKE HURON
PARRY SOUND
NIPISSING
RENFREW
MUSKOKA DM
HALIBURTON
PRESCOTT
RUSSELL
GLENGARRY
OTTAWA - CARLETON RM
STORMONT
St. Lawrence Valley
LANARK
DUNDAS
GRENVILLE
LENNOX & ADDINGTON
FRONTENAC
LEEDS
PETERBOROUGH
HASTINGS
VICTORIA
Eastern Ontario
SIMCOE
GREY
BRUCE
Georgian Bay
DUFFERIN
DURHAM RM
NORTHUMBERLAND
PRINCE EDWARD
YORK RM
PEEL RM
METRO TORONTO
Central Ontario
LAKE ONTARIO
HURON
WELLINGTON
WATERLOO RM
PERTH
HALTON RM
HAMILTON
WENTWORTH RM
South-Western Ontario
OXFORD
BRANT
Niagara
NIAGARA RM
MIDDLESEX
HALDIMAND - NORFOLK RM
LAMBTON
ELGIN
KENT
ESSEX
LAKE ST. CLAIR
LAKE ERIE
United States
1974

CENSUS TECHNIQUES AND DEFINITION OF TERMS

Census Techniques

Grower List — The grower list originated from the 1986 Census of Agriculture with supplemental updates by Statistics Canada through various annual surveys. Grower listings from the Ontario Apple Marketing Commission and the Ontario Tender Fruit Growers' and Grape Growers' Marketing Boards were used to verify and further ensure completeness. Also, newsletters from the Commission and Boards were used to request those who did not receive a Census form to obtain one from their local OMAF office.

Response Rate — A total of 2,273 growers responded to the Census. Some non-response was encountered and as no other accurate information is available about these orchards, they were not included in the tabulation of the Census results. This should be kept under consideration when using the data.

Data Collected — Each Census form represented one grower of tender fruit, whether with one or several orchards. For each of the types of tender fruit (excluding apples), the actual number of trees and the total average planting density were requested.

Definition of Terms

Farm (Grower) — A grower is defined as the operator of an orchard (whether owned or leased) who markets the fruit produced. Each grower responding is considered to be operating a farm.

District — A district is the grouping of counties according to geographical location. Within each grouping, the counties are deemed to be as similar as possible (ie. soil condition, climate, etc.). As in the case of South-Western Ontario, a large number of counties were used to ensure that no single grower is identifiable from the results. It is known that some growers may reside in a district different from where their orchard(s) are located. This is considered negligible considering the district sizes and regional locations.

Age Groupings — Set such that the number of trees that are non-producing (too young), high producers (in their prime), or liable to be replaced or removed by the next Census are identifiable.

Cultivated and Bearing Acreage — Cultivated acreage represents the total area of planted trees and bearing acreage represents the total area of trees planted from which fruit was produced.

Marketed Production — Total marketed production is the estimated total sales of produce to fresh and processing markets and hence does not include that amount which was not harvested, became waste, or was left unsold.

Farm Value — The total amount paid to growers for produce sold is called the farm value. This refers to the actual transaction prices and will not include government subsidy payments, commissions, packaging charges or Board fees.

SECTION I - APRICOTS

Since apricots were first included in the Fruit Tree Census in 1981, the total number of trees has been constantly increasing. There were a total of 18,325 trees in 1990, up 33 percent from 13,830 trees in 1986 (Table 1). In 1990 there were a total of 488 growers as compared to 366 in 1986 (Table 2).

The majority of apricot trees are located in the Niagara District (82%) and in South-Western Ontario (17%). Note that any direct comparisons of the districts Niagara, South-Western or Central Ontario between 1986 and 1990 is not possible as boundaries have changed (see Foreword on page v).

An increasing percentage of the trees are reaching an age in which they begin producing fruit. In 1990, 70 percent were over 4 years of age as compared to 57 percent in 1986 and 50 percent in 1981.

Table 1 - Apricot Trees in Ontario, 1981-1990

District	1981	1986	1990	1990 as % of 1986
St. Lawrence Valley	0	11	3	27.27
Eastern Ontario	61	92	90	97.83
Georgian Bay	2	14	11	78.57
Central Ontario	5	142	89	n/a
Niagara	9,021	10,566	15,091	n/a
South-Western Ontario	2,012	3,005	3,041	n/a
Total	11,101	13,830	18,325	132.50

n/a Not applicable

Table 2 - Apricot Trees by Age Group and District, Ontario, 1990

District	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Region as % of Total	Number of Growers
St. Lawrence Valley	3	0	0	3	0.02	2
Eastern Ontario	35	55	0	90	0.49	4
Georgian Bay	0	11	0	11	0.06	3
Central Ontario	40	31	18	89	0.49	7
Niagara	4,503	6,451	4,137	15,091	82.35	322
South-Western Ontario	1,019	1,678	344	3,041	16.59	150
Total	5,600	8,226	4,499	18,325	100.00	488
Age Group as % of Total	30.56	44.89	24.55	100.00		

SECTION II - SWEET CHERRIES

Production and Marketing

Since 1987 there has been a steady decline in the bearing acreage of sweet cherries in Ontario, down to 835 acres in 1990 from 1,048 in 1987 (Table 3). In 1990, a total of 1,413 tons was marketed. The 5 year average marketed production for the years 1986 to 1990 was 1,351 tons, compared to 1,723 tons for 1981 to 1985. Total farm value for sweet cherries in 1990 was $2.2 million. This is approximately 5 percent of the total farm value in 1990 of Ontario for commercial tree fruit, excluding apples. During the period 1985 to 1990 farm value ranged from a high of $2.2 million in 1985 to a low of $1.4 million in 1987 and back to $2.2 million in 1990.

In 1990, 79 percent of the crop was utilized for the fresh market. The 5 year average from 1986 to 1990 was 67 percent and 62 percent for 1981 to 1985 (Table 4).

Table 3 - Sweet Cherries, Estimated Area, Production and Farm Value, Ontario, 1985-1990

	Area		Marketed	Farm Value	
	Cultivated	Bearing	Production	Unit	Total
	- acres -		tons	cents/lb	$'000
1985	-	1,047	1,732	62.4	2,162
1986	-	1,030	1,524	58.5	1,785
1987	-	1,048	1,375	52.3	1,437
1988	960	910	1,238	80.2	1,985
1989	930	890	1,203	84.7	2,037
1990	890	835	1,413	76.5	2,161

- Figures not available

Table 4 - Sweet Cherries, Marketed Production, Ontario, 1985-1990

	1985	1986	1987	1988	1989	1990
			- tons -			
Fresh	1,151	963	639	854	985	1,110
Processing*:						
Canning	63	85	81	74	60	45
Brining	502	463	587	309	157	222
Distilling	15	10	64	0	0	36
Juice	1	3	4	1	1	0
Total Processing	581	561	736	384	218	303
Total Production	1,732	1,524	1,375	1,238	1,203	1,413

* Source: Ontario Tender Fruit Producers' Marketing Board

Farm Size and Regional Distribution

In 1990 there were 712 farms reporting sweet cherry trees, an increase from 610 farms in 1986 (Table 5). The number of farms with fewer than 100 trees increased by 19 percent, from 479 in 1986 to 570 in 1990. There was also an 8 percent increase in the number of farms with more than 100 trees, from 131 in 1986 to 142 in 1990, and an increase of those with more than 1,000 trees from 4 in 1986 to 6 in 1990. The majority of the farms are in the Niagara District (64%) and South-Western Ontario (30%).

Tree Distribution, Varieties and Age

In 1990 there were a total of 61,797 sweet cherry trees, up 12 percent from 55,098 trees in 1986 (Table 6). This was the first increase since the census reported 142,218 trees in 1966. Of the total trees in Ontario, 83 percent are located in Niagara District and 17 percent in South-Western Ontario (Table 7).

The most abundant varieties in 1990 were Hedelfingen (33%), Vista (9%), and Bing (7%). The largest percentage change in tree numbers since 1986 were for the varieties Viscount (130%), Black Tartarian (50%), Viva (37%), and Windsor (-37%). Other non-commercial varieties are listed in the Appendix (Table 84).

A total of 84 percent of the trees were over 3 years of age and 64 percent over 10 years (Table 8). Specifically, the variety Schmidt has 97 percent over 10 years of age, Venus 91 percent, Vista 90 percent, Windsor 90 percent, Black Tartarian 84 percent and Vic 82 percent.

Regional Analysis

The number of sweet cherry trees in Eastern Ontario and the St. Lawrence Valley District has decreased by 46 percent, from 216 in 1986 to 116 in 1990. Seventy-eight percent were over 3 years of age. The major varieties grown were Hedelfingen (17%), Vogue (16%), and Valera (12%). From 1986 to 1990, the number of trees of the variety Hedelfingen decreased from 72 to 20, and that for Bing decreased from 37 to 7.

There were a total of 310 sweet cherry trees in Central Ontario and the Georgian Bay District (Table 10). A direct comparison with 1986 is not possible as the boundaries have changed for Central Ontario (see Forward page v). Eighty-six percent were over 3 years of age. The major varieties grown were Hedelfingen (43%), Bing (16%), and Venus (7%). The Georgian Bay District does have the same boundaries and hence comparison with 1986 is possible. The number of sweet cherry trees in this district increased by 26 percent, from 194 in 1986 to 245 in 1990. Specifically, the number of trees of the variety Hedelfingen increased from 85 to 123, and that for Viscount increased from 0 to 12.

In the Niagara District there were a total of 51,075 trees (Table 11). Eighty-four percent were over 3 years of age. The major varieties grown were Hedelfingen (32%), Vista (9%), and Bing (8%). A comparison with 1986 is not possible as the district boundaries have changed.

In South-Western Ontario there were a total of 10,296 sweet cherry trees (Table 12). The major varieties grown were Hedelfingen (35%), Valera (9%), and Vista (7%). Eighty-five percent were over 3 years of age. As with the Niagara District, a comparison with 1986 cannot be made as district boundaries have changed.

Table 5 - Farms Reporting Sweet Cherry Trees by the Number of Trees on Farms, Ontario, 1990

No. of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Farms as % of Total
1-10	3	7	16	6	144	155	331	46.49
11-100	0	4	2	2	195	36	239	33.57
101-200	0	0	1	0	54	11	66	9.27
201-500	0	0	0	0	41	11	52	7.30
501-1,000	0	0	0	0	14	4	18	2.53
1,001-2,500	0	0	0	0	4	0	4	0.56
2,501-5,000	0	0	0	0	2	0	2	0.28
5,001 and over	0	0	0	0	0	0	0	0.00
Total Farms	3	11	19	8	454	217	712	100.00
Farms as % of Total	0.42	1.55	2.67	1.12	63.76	30.48	100.00	

Table 6 - Sweet Cherry Trees in Ontario, 1971-1990

Variety	1971	1976	1981	1986	1990	1990 as % of 1986
Bing	10,117	8,413	5,219	4,176	4,609	110.37
Black Tartarian	4,854	2,283	1,144	463	694	149.89
Hedelfingen	25,666	24,030	20,293	17,261	20,250	117.32
Napolean	2,950	2,032	1,654	614	695	113.19
Schmidt	10,690	5,828	3,628	2,006	1,697	84.60
Stella	*	685	857	1,198	1,245	103.92
Valera	3,166	3,776	4,026	3,361	3,340	99.38
Van	3,168	3,063	2,770	3,309	3,436	103.84
Vega	1,528	1,608	1,598	784	750	95.66
Venus	7,873	6,101	4,330	3,703	3,469	93.68
Vic	4,141	2,957	2,623	1,533	1,427	93.09
Victor	3,949	2,699	1,459	762	834	109.45
Viscount	*	*	*	989	2,274	229.93
Vista	16,029	12,028	9,385	6,109	5,417	88.67
Viva	*	2,472	3,082	2,807	3,849	137.12
Vogue	*	1,420	1,192	864	1,019	117.94
Windsor	11,898	7,658	4,801	3,024	1,907	63.06
Other Varieties	7,980	7,544	4,591	2,135	4,885	228.81
Total	114,009	94,597	72,652	55,098	61,797	112.16

* Not specified in these years, included in 'Other Varieties'

Table 7 - Sweet Cherry Trees by Variety and District, Ontario, 1990

Variety	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Variety as % of Total
Bing	1	6	22	27	3,839	714	4,609	7.46
Black Tartarian	0	0	3	7	482	202	694	1.12
Hedelfingen	0	20	123	11	16,454	3,642	20,250	32.77
Napolean	0	1	0	10	549	135	695	1.12
Schmidt	0	0	1	0	1,460	236	1,697	2.75
Stella	0	7	4	0	1,074	160	1,245	2.01
Valera	0	14	15	0	2,393	918	3,340	5.40
Van	0	0	2	0	2,958	476	3,436	5.56
Vega	0	8	9	0	611	122	750	1.21
Venus	0	0	22	0	3,133	314	3,469	5.61
Vic	0	0	0	5	1,325	97	1,427	2.31
Victor	0	7	0	0	656	171	834	1.35
Viscount	0	0	12	0	1,814	448	2,274	3.68
Vista	0	7	1	0	4,657	752	5,417	8.77
Viva	0	3	3	0	3,328	515	3,849	6.23
Vogue	0	18	0	0	616	385	1,019	1.65
Windsor	0	0	2	0	1,570	335	1,907	3.09
Other Varieties	8	16	26	5	4,156	674	4,885	7.91
Total	9	107	245	65	51,075	10,296	61,797	100.00
District as % of Total	0.01	0.17	0.40	0.11	82.65	16.66	100.00	

Table 8 - Sweet Cherry Trees by Variety and Age Group, Ontario, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Bing	548	771	3,290	4,609	7.46
Black Tartarian	50	63	581	694	1.12
Hedelfingen	2,675	4,714	12,861	20,250	32.77
Napolean	50	129	516	695	1.12
Schmidt	7	41	1,649	1,697	2.75
Stella	277	359	609	1,245	2.01
Valera	302	858	2,180	3,340	5.40
Van	718	1,020	1,698	3,436	5.56
Vega	64	169	517	750	1.21
Venus	81	226	3,162	3,469	5.61
Vic	56	195	1,176	1,427	2.31
Victor	28	162	644	834	1.35
Viscount	1,089	925	260	2,274	3.68
Vista	129	417	4,871	5,417	8.77
Viva	982	899	1,968	3,849	6.23
Vogue	196	503	320	1,019	1.65
Windsor	43	155	1,709	1,907	3.09
Other Varieties	2,714	615	1,556	4,885	7.91
Total	10,009	12,221	39,567	61,797	100.00
Age as % of Total	16.20	19.77	64.03	100.00	

Table 9 - Sweet Cherry Trees by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Bing	1	5	1	7	6.03
Hedelfingen	1	19	0	20	17.24
Napolean	1	0	0	1	0.86
Stella	3	4	0	7	6.03
Valera	0	14	0	14	12.07
Vega	1	7	0	8	6.90
Victor	1	6	0	7	6.03
Vista	0	7	0	7	6.03
Viva	0	3	0	3	2.59
Vogue	1	17	0	18	15.53
Other Varieties	17	7	0	24	20.69
Total	26	89	1	116	100.00
Age Group as % of Total	22.41	76.73	0.86	100.00	

Table 10 - Sweet Cherry Trees by Variety and Age Group, Central Ontario and Georgian Bay District, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Bing	12	11	26	49	15.81
Black Tartarian	2	3	5	10	3.23
Hedelfingen	0	131	3	134	43.23
Napolean	5	0	5	10	3.23
Schmidt	0	0	1	1	0.32
Stella	3	0	1	4	1.29
Valera	0	15	0	15	4.84
Van	0	0	2	2	0.64
Vega	0	9	0	9	2.90
Venus	0	22	0	22	7.10
Vic	5	0	0	5	1.61
Viscount	10	2	0	12	3.87
Vista	0	1	0	1	0.32
Viva	0	0	3	3	0.97
Windsor	0	0	2	2	0.64
Other Varieties	5	24	2	31	10.00
Total	42	218	50	310	100.00
Age Group as % of Total	13.55	70.32	16.13	100.00	

Table 11 - Sweet Cherry Trees by Variety and Age Group, Niagara District, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Bing	419	494	2,926	3,839	7.52
Black Tartarian	38	35	409	482	0.94
Hedelfingen	2,149	3,189	11,116	16,454	32.22
Napolean	36	14	499	549	1.07
Schmidt	2	28	1430	1,460	2.86
Stella	231	324	519	1,074	2.10
Valera	242	451	1,700	2,393	4.69
Van	689	868	1401	2,958	5.79
Vega	62	94	455	611	1.20
Venus	76	180	2877	3,133	6.13
Vic	50	190	1085	1,325	2.59
Victor	27	130	499	656	1.28
Viscount	891	689	234	1,814	3.55
Vista	93	271	4,293	4,657	9.12
Viva	748	732	1,848	3,328	6.52
Vogue	169	262	185	616	1.21
Windsor	9	127	1434	1,570	3.07
Other Varieties	2,439	423	1,294	4,156	8.14
Total	8 370	8,501	34,204	51,075	100.00
Age Group as % of Total ..	16.39	16.64	66.97	100.00	

Table 12 - Sweet Cherry Trees by Variety and Age Group, South-Western Ontario, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Bing	116	261	337	714	6.94
Black Tartarian	10	25	167	202	1.96
Hedelfingen	525	1,375	1,742	3,642	35.37
Napolean	8	115	12	135	1.31
Schmidt	5	13	218	236	2.29
Stella	40	31	89	160	1.56
Valera	60	378	480	918	8.92
Van	29	152	295	476	4.62
Vega	1	59	62	122	1.19
Venus	5	24	285	314	3.05
Vic	1	5	91	97	0.94
Victor	0	26	145	171	1.66
Viscount	188	234	26	448	4.35
Vista	36	138	578	752	7.30
Viva	234	164	117	515	5.00
Vogue	26	224	135	385	3.74
Windsor	34	28	273	335	3.25
Other Varieties	253	161	260	674	6.55
Total	1,571	3,413	5,312	10,296	100.00
Age Group as % of Total ..	15.26	33.15	51.59	100.00	

SECTION III - SOUR CHERRIES

Production and Marketing

There were 1,890 acres of sour cherries in Ontario in 1990, compared to 2,166 in 1985 (Table 13). Marketed production levels varied considerably during that period from a low of 4,230 in 1986 to a high of 6,848 in 1985. A late spring frost in 1986 was responsible for the low production level. The 5 year average production for 1986 to 1990 was 5,569 tons compared to 6,107 tons for 1981 to 1985. Total farm value for 1990 was $3.0 million and ranged from a low of $2.5 million in 1987 to a high of $5.3 million in 1985. In 1990, sour cherries accounted for 7 percent of the total farm value of commercial tree fruit crops in Ontario, excluding apples.

During the period from 1986 to 1990, an average of 92 percent of the crop was utilized for processing, compared to 93 percent for 1981 to 1985 and 86 percent for 1977 to 1981. The tonnage of sour cherries sold to the fresh and processing sectors for 1985 to 1990 is shown in Table 14.

Table 13 - Sour Cherries, Estimated Area, Production and Farm Value, Ontario, 1985-1990

	Area		Marketed	Farm Value	
	Cultivated	Bearing	Production	Unit	Total
	- acres -		tons	cents/lb	$'000
1985	-	2,166	6,848	38.5	5,270
1986	-	2,130	4,230	42.2	3,569
1987	-	2,152	6,800	18.7	2,539
1988	2,220	2,010	5,650	33.4	3,774
1989	2,100	1,900	6,590	29.9	3,940
1990	2,040	1,890	4,575	32.5	2,975

- Figures not available

Table 14 - Sour Cherries, Marketed Production, Ontario, 1985-1990

	1985	1986	1987	1988	1989	1990
			- tons -			
Fresh	377	232	244	589	681	681
Processed and Distilled*	6,471	3,998	6,556	5,061	5,909	3,894
Total Production	6,848	4,230	6,800	5,650	6,590	4,575

* Source: Ontario Tender Fruit Producers' Marketing Board

Farm Size and Regional Distribution

A total of 635 farms reported sour cherry trees in 1990, up from 547 in 1986 (Table 15). The number of farms with 100 trees or fewer increased by 39 percent, from 347 in 1986 to 481 in 1990. There was also a 23 percent decrease in the number of farms with more than 100 trees, from 200 in 1986 to 154 in 1990. Specifically, the number of farms with more than 1,000 trees declined from 84 in 1986 to 73 farms in 1990. In 1990, the Niagara District continued to have the greatest number of farms (324) followed by South-Western Ontario (236).

Tree Distribution, Varieties and Age

In 1990 there were a total of 228,922 sour cherry trees, down slightly from 230,000 in 1986 (Table 16). This is a continuing decline since 1981, when there were 243,424 trees. Of the total trees in Ontario, 59 percent were located in the Niagara District, 38 percent in South-Western Ontario, and the remaining 3 percent elsewhere in the province (Table 17).

The most popular variety is Montmorency, making up over 99 percent of all trees. Other varieties cultivated include June Montmorency, Northstar, English Morello, Galaxy, and Meteor. These varieties are listed in the Appendix (Table 85).

A total of 72 percent of the trees are over 5 years of age and 18 percent are over 15 years (Table 18). There has been a 23 percent reduction in sour cherry tree plantings with 64,335 being 1 to 5 years of age in 1990, down from 83,304 of the same age group in 1986.

Regional Analysis

The number of sour cherry trees in Eastern Ontario and the St. Lawrence Valley District has increased by 8 percent, from 4,473 trees in 1986 to 4,838 trees in 1990 (Table 19). Eighty-nine percent of the trees were over 5 years of age and 17 percent over 15 years. Ninety-nine percent of all trees grown are of the variety Montmorency.

There were a total of 814 sour cherry trees in the Georgian Bay District in 1990 (Table 20). This was a decline of 38 percent from a total of 1,306 trees reported in 1986. Sixty-one percent of the trees were over 5 years of age and 33 percent over 15 years. Ninety-eight percent are of the variety Montmorency.

In Central Ontario there were 2,371 sour cherry trees (Table 21). Of these, 87 percent were over 5 years of age and 64 percent over 15 years. All are of the variety Montmorency. No comparison can be made with 1986 as boundaries have been changed (see Foreword on page v).

The Niagara District had a total of 134,872 sour cherry trees in 1990, of which 99 percent were of the variety Montmorency (Table 22). Seventy-eight percent were over 5 years of age and 19 percent over 15 years. As with the district of Central Ontario, no comparison can be made with 1986.

In South-Western Ontario there were 86,027 sour cherry trees (Table 23). Of these only 210 trees were not of the variety Montmorency. Sixty-six percent were over 5 years of age and 16 percent over 15 years. Again, no comparison can be made with 1986 as the boundaries have changed.

Table 15 - Farms Reporting Sour Cherry Trees by the Number of Trees on Farms, Ontario, 1990

No. of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Farms as % of Total
1-10	5	18	26	7	123	172	351	55.27
11-100	3	7	0	0	95	25	130	20.47
101-200	0	2	1	0	27	7	37	5.83
201-500	0	0	2	0	33	9	44	6.93
501-1,000	0	1	0	1	13	5	20	3.15
1,001-2,500	0	0	0	1	19	8	28	4.41
2,501-5,000	0	1	0	0	8	7	16	2.52
5,001 and over	0	0	0	0	6	3	9	1.42
Total Farms	8	29	29	9	324	236	635	100.00
Farms as % of Total	1.26	4.57	4.57	1.42	51.02	37.16	100.00	

Table 16 - Sour Cherry Trees in Ontario, 1971-1990

Variety	1971	1976	1981	1986	1990	1990 as % of 1986
Montmorency	271,852	221,443	241,327	227,644	226,728	99.60
Other Varieties	7,236	2,818	2,097	2,356	2,194	93.12
Total	279,088	224,261	243,424	230,000	228,922	99.53

Table 17 - Sour Cherry Trees by Variety and District, Ontario, 1990

Variety	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Variety as % of Total
Montmorency	88	4,691	796	2,371	132,965	85,817	226,728	99.04
Other Varieties	16	43	18	0	1,907	210	2,194	0.96
Total	104	4,734	814	2,371	134,872	86,027	228,922	100.00
District as % of Total	0.04	2.07	0.35	1.04	58.92	37.58	100.00	

Table 18 - Sour Cherry Trees by Variety and Age Group, Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 15 Years	16 Years & Over	Total	Variety as % of Total
Montmorency	63,641	73,892	48,103	41,092	226,728	99.04
Other Varieties	694	435	56	1,009	2,194	0.96
Total	64,335	74,327	48,159	42,101	228,922	100.00
Age Group as % of Total	28.10	32.47	21.04	18.39	100.00	

Table 19 - Sour Cherry Trees by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 15 Years	16 Years & Over	Total	Variety as % of Total
Montmorency	522	3,037	409	811	4,779	98.78
Other Varieties	10	32	1	16	59	1.22
Total	532	3,069	410	827	4,838	100.00
Age Group as % of Total	11.00	63.44	8.47	17.09	100.00	

Table 20 - Sour Cherry Trees by Variety and Age Group, Georgian Bay District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 15 Years	16 Years & Over	Total	Variety as % of Total
Montmorency	320	203	9	264	796	97.79
Other Varieties	0	14	2	2	18	2.21
Total	320	217	11	266	814	100.00
Age Group as % of Total	39.31	26.66	1.35	32.68	100.00	

Table 21 - Sour Cherry Trees by Variety and Age Group, Central Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 15 Years	16 Years & Over	Total	Variety as % of Total
Montmorency	316	306	236	1,513	2,371	100.00
Other Varieties	0	0	0	0	0	0.00
Total	316	306	236	1,513	2,371	100.00
Age Group as % of Total	13.33	12.91	9.95	63.81	100.00	

Table 22 - Sour Cherry Trees by Variety and Age Group, Niagara District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 15 Years	16 Years & Over	Total	Variety as % of Total
Montmorency	29,196	44,048	34,540	25,181	132,965	98.59
Other Varieties	600	327	24	956	1,907	1.41
Total	29,796	44,375	34,564	26,137	134,872	100.00
Age Group as % of Total	22.09	32.90	25.63	19.38	100.00	

Table 23 - Sour Cherry Trees by Variety and Age Group, South-Western Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 15 Years	16 Years & Over	Total	Variety as % of Total
Montmorency	33,287	26,298	12,909	13,323	85,817	99.76
Other Varieties	84	62	29	35	210	0.24
Total	33,371	26,360	12,938	13,358	86,027	100.00
Age Group as % of Total	38.79	30.64	15.04	15.53	100.00	

SECTION IV - NECTARINES

Production and Marketing

Nectarines are cultivated in Ontario but are not considered a major commercial fruit tree crop. Hence no data are available on production, farm value, or marketing. Nectarines were first reported in the Tree Fruit Census in 1981.

Farm Size and Regional Distribution

In 1990 there were 193 farms reporting nectarine trees, an increase of 19 percent over 162 farms in 1986 (Table 24). Farm sizes are small, with 45 percent having 10 or fewer trees and 84 percent having 100 or fewer. Essentially all farms are in the Niagara District (65%) or South-Western Ontario (34%), with the remaining in Eastern and Central Ontario.

Tree Distribution, Varieties and Age

There was an 84 percent increase in the number of nectarine trees in Ontario from 7,351 trees in 1986 to 13,491 trees in 1990 (Table 25). Of these, 82 percent were in the Niagara District, 17 percent in South-Western Ontario, and 1 percent in Central and Eastern Ontario (Table 26).

The most popular variety cultivated is Fantasia, being 76 percent of all trees. Other non-commercial varieties are listed in the Appendix (Table 86).

Over half (54%) of all trees were under 4 years of age and 33 percent between 4 and 9 years and 12 percent over 9 years of age (Table 27).

Regional Analysis

In 1990 there were 86 nectarine trees in Eastern and Central Ontario (Table 28). Eighty-seven percent were of the variety Fantasia. All of the trees were less than 4 years of age.

In the Niagara District there were 11,107 nectarine trees, 84 percent of which being of the variety Fantasia (Table 29). Fifty-four percent were under 4 years of age and 46 percent were at an age in which they were producing fruit.

In the district of South-Western Ontario there were 2,298 trees of which 61 percent were not of the variety Fantasia (Table 30). As with the Niagara District, 54 percent of the trees were less than 4 years of age and 46 percent were producing fruit.

Table 24 - Farms Reporting Nectarine Trees by the Number of Trees on Farms, Ontario, 1990

No. of Trees	Eastern Ontario	Central Ontario	Niagara	South-Western Ontario	Total	Farms as % of Total
1-10	1	0	55	31	87	45.08
11-100	0	1	46	28	75	38.86
101-200	0	0	9	4	13	6.73
201-500	0	0	11	3	14	7.25
501-1,000	0	0	2	0	2	1.04
1,001-2,500	0	0	2	0	2	1.04
Total Farms	1	1	125	66	193	100.00
Farms as % of Total	0.52	0.52	64.76	34.20	100.00	

Table 25 - Nectarine Trees in Ontario, 1971-1990

Variety	1971	1976	1981	1986	1990	1990 as % of 1986
Fantasia	-	-	*	*	10,283	n/a
Other Varieties	-	-	7,595	7,351	3,208	n/a
Total	-	-	7,595	7,351	13,491	183.53

- Not included in these censuses n/a Not applicable

* Not specified in these years, included in 'Other Varieties'

Table 26 - Nectarine Trees by Variety and District, Ontario, 1990

Variety	Eastern Ontario	Central Ontario	Niagara	South-Western Ontario	Total	Variety as % of Total
Fantasia	0	75	9,301	907	10,283	76.22
Other Varieties	1	10	1,806	1,391	3,208	23.78
Total	1	85	11,107	2,298	13,491	100.00
District as % of Total	0.01	0.63	82.33	17.03	100.00	

Table 27 - Nectarine Trees by Variety and Age Group, Ontario, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Fantasia	6,070	3,501	712	10,283	76.22
Other Varieties	1,249	1,015	944	3,208	23.78
Total	7,319	4,516	1,656	13,491	100.00
Age as % of Total	54.25	33.47	12.28	100.00	

Table 28 - Nectarine Trees by Variety and Age Group, Eastern and Central Ontario, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Fantasia	75	0	0	75	87.21
Other Varieties	11	0	0	11	12.79
Total	86	0	0	86	100.00
Age Group as % of Total	100.00	0.00	0.00	100.00	

Table 29 - Nectarine Trees by Variety and Age Group, Niagara District, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Fantasia	5,402	3,188	711	9,301	83.74
Other Varieties	594	367	845	1,806	16.26
Total	5,996	3,555	1,556	11,107	100.00
Age Group as % of Total	53.98	32.01	14.01	100.00	

Table 30 - Nectarine Trees by Variety and Age Group, South-Western Ontario, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Fantasia	593	313	1	907	39.47
Other Varieties	644	648	99	1,391	60.53
Total	1,237	961	100	2,298	100.00
Age Group as % of Total	53.83	41.82	4.35	100.00	

SECTION V - PEACHES

Production and Marketing

The total bearing acreage of peaches in Ontario has increased by 16 percent over the 5 year period from 1986 to 1990, from 7,200 acres in 1986 to 8,320 acres in 1990 (Table 31). In 1990 there was a total of 43,110 tons marketed. The 5 year average marketed production for the years 1986 to 1990 was 36,681 tons, compared to 26,230 tons for 1981 to 1985. Total farm value for peaches in 1990 was $31.2 million. During the period 1985 to 1990, farm value ranged from this high in 1990 to a low of $15.9 million in 1986. Peaches account for 72 percent of the total commercial farm value from tree fruits in Ontario, excluding apples.

In 1990, 80 percent of the crop was utilized for the fresh market. The 5 year average from 1986 to 1990 was 81 percent and 83 percent for 1981 to 1985 (Table 32).

Table 31 - Peaches, Estimated Area, Production and Farm Value, Ontario, 1985-1990

	Area		Marketed Production	Farm Value	
	Cultivated	Bearing		Unit	Total
	- acres -		tons	cents/lb	$'000
1985	-	7,483	35,007	25.4	17,814
1986	-	7,200	28,449	28.0	15,925
1987	-	7,492	35,900	25.9	18,602
1988	8,880	8,500	39,500	25.2	19,908
1989	8,880	8,300	36,447	31.6	23,070
1990	8,945	8,320	43,110	36.2	31,246

- Figures not available

Table 32 - Peaches, Marketed Production, Ontario, 1985-1990

	1985	1986	1987	1988	1989	1990
			- tons -			
Fresh	27,928	22,998	28,469	32,496	29,395	34,674
Processing*:						
Freestones	42	32	26	12	10	11
Clingstones	7,037	5,419	7,405	6,992	7,042	8,425
Total Processing ...	7,079	5,451	7,431	7,004	7,052	8,436
Total Production	35,007	28,449	35,900	39,500	36,447	43,110

* Source: Ontario Tender Fruit Producers' Marketing Board

Farm Size and Regional Distribution

In 1990 there were 787 farms reporting peaches, an increase of 15 percent from 687 in 1986 (Table 33). The number of farms with 100 or fewer trees increased by 38 percent from 176 farms in 1986 to 242 farms in 1990. There was also a 10 percent increase in the number of farms with more than 1,000 trees, from 225 in 1986 to 247 in 1990. The majority of the farms are in the Niagara District (68%) and South-Western Ontario (30%).

Tree Distribution, Varieties and Age

In 1990 there were a total of 1,236,936 peach trees, up 15 percent from 1,078,707 trees in 1986 (Table 34). Of the total trees in Ontario, 88 percent are located in the Niagara District and 12 percent in South-Western Ontario. (Table 35). Eighty-three percent of the peach trees in Ontario are of freestone varieties and 17 percent are clingstone.

The most abundant varieties in 1990 were Redhaven (17%), Garnet Beauty (8%), Loring (7%), Veecling (6%), Vivid (6%), Babygold 5 (6%), and Babygold 7 (5%). The largest percentage change in tree numbers since 1986 were of the varieties Brighton (84%), Newhaven (61%), Veecling (53%), Envoy (-43%), and Earlired (-42%). Other non-commercial varieties are listed in the Appendix (Table 88).

A total of 78 percent of the trees were over 3 years of age and 26 percent over 10 years (Table 36). Peach trees in the 1 to 3 year age group account for 22 percent of the total in 1990, compared to 29 percent in 1986 and 30 percent in 1981.

Regional Analysis

Of the total peach trees in the Niagara District, 82 percent were freestone varieties and 18 percent clingstone varieties (Table 37). Eighty percent of the total trees were over 3 years of age, 82 percent of the freestone varieties and 73 percent of clingstone. The major varieties grown are Redhaven (16%), Loring (8%), and Garnet Beauty (8%). As the boundaries set for the Niagara District in 1986 are not the same as for 1990, a direct comparison of tree numbers is not possible (see Foreword on page v).

In South-Western Ontario, 85 percent of the peach trees were freestone varieties, and 15 percent clingstone (Table 38). Sixty-one percent of the total trees were over 3 years of age, 62 percent of the freestone varieties and 53 percent of the clingstone. The major varieties grown are Redhaven (22%), Veecling (14%), Garnet Beauty (7%), and Harrow Diamond (7%). As in the case of Niagara District, a direct comparison with 1986 is not possible.

Table 33 - Farms Reporting Peach Trees by the Number of Trees on Farm, Ontario, 1990

No. of Trees	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Farms as % of Total
1-10	6	4	3	53	52	118	14.99
11-100	0	0	1	76	47	124	15.76
101-200	0	0	0	36	26	62	7.88
201-500	0	0	1	65	51	117	14.87
501-1,000	0	0	0	90	29	119	15.12
1,001-2,500	0	0	0	102	20	122	15.50
2,501-5,000	0	0	0	65	3	68	8.64
5,001 and over	0	0	0	51	6	57	7.24
Total Farms	6	4	5	538	234	787	100.00
Farms as % of Total	0.76	0.51	0.64	68.36	29.73	100.00	

Table 34 - Peach Trees in Ontario, 1971-1990

Variety	1971	1976	1981	1986	1990	1990 as % of 1986
Brighton	*	*	*	6,420	11,820	184.11
Canadian Harmony	8,218	30,614	39,467	55,347	53,254	96.22
Candor	*	14,038	24,775	38,703	38,519	99.52
Cresthaven	7,616	14,258	24,634	38,333	41,656	108.67
Earliglo	9,613	13,760	11,618	11,946	15,500	129.75
Earlired	46,228	44,994	23,992	9,105	5,261	57.78
Early Redhaven	*	*	*	40,015	49,142	122.81
Envoy	43,095	36,737	18,849	8,343	4,726	56.65
Garnet Beauty	25,850	43,623	59,634	81,357	94,428	116.07
Harbelle	7,749	27,065	40,447	33,335	33,399	100.19
Harbrite	*	16,868	27,843	32,001	30,388	94.96
Harcrest	*	*	*	*	7,462	n/a
Harken	*	9,951	17,995	18,387	13,933	75.78
Harrow Beauty	*	*	*	*	14,780	n/a
Harrow Diamond	*	*	*	*	45,288	n/a
Harson	*	*	*	*	11,734	n/a
Loring	80,511	97,538	97,882	85,974	92,204	107.25
Madison	15,344	25,297	24,542	18,466	15,588	84.41
Newhaven	*	*	*	8,169	13,122	160.63
Redhaven	168,111	185,137	178,741	186,510	207,652	111.34
Redkist	*	*	*	8,047	6,682	83.04
Redskin	22,862	31,227	29,142	28,842	26,628	92.32
Sunhaven	75,749	72,055	52,120	54,345	54,438	100.17
Vanity	7,874	15,620	20,292	13,215	13,198	99.87
Veeglo	*	*	7,711	17,789	20,591	115.75
Vivid	*	12,438	44,493	59,976	68,076	113.51
Other Freestone	395,860	204,741	82,846	27,349	31,811	n/a
Total Freestone	914,680	895,961	827,023	881,974	1,021,280	115.79
Babygold 5	21,835	49,210	56,819	63,609	71,774	112.84
Babygold 7	22,922	39,842	51,953	66,498	66,780	100.42
Veecling	*	*	13,835	48,444	73,977	152.71
Other Clingstone	18,946	11,663	10,336	18,182	3,137	17.25
Total Clingstone	63,703	100,715	132,943	196,733	215,668	109.62
Total	978,383	996,676	959,966	1,078,707	1,236,948	114.67

* Not specified in these years, included in 'Other Freestone' or 'Other Clingstone'. n/a Not applicable

Table 35 - Peach Trees by Variety and District, Ontario, 1990

Variety	Niagara	South-Western Ontario	Other Ontario Districts	Total	Variety as % of Total
Brighton	0	0	1	1	0.00
Canadian Harmony	10,570	1,249	20	11,839	0.98
Candor	45,537	7,697	0	53,234	4.43
Cresthaven	35,836	2,683	0	38,519	3.20
Earliglo	36,921	4,735	0	41,656	3.47
Earlired	14,733	767	0	15,500	1.29
Early Redhaven	5,152	109	0	5,261	0.44
Envoy	45,962	3,180	0	49,142	4.09
Garnet Beauty	4,281	445	5	4,731	0.39
Harbelle	83,145	11,278	0	94,423	7.86
Harbrite	30,680	2,719	1	33,400	2.78
Harcrest	25,335	5,052	0	30,387	2.53
Harken	3,695	3,767	0	7,462	0.62
Harrow Beauty	11,694	2,239	0	13,933	1.16
Harrow Diamond	9,226	5,554	3	14,783	1.23
Harson	34,028	11,257	0	45,285	3.77
Loring	3,345	8,389	6	11,740	0.98
Madison	86,955	5,243	0	92,198	7.67
Newhaven	14,426	1,162	0	15,588	1.30
Redhaven	10,966	2,156	36	13,158	1.09
Redkist	174,464	33,152	0	207,616	17.27
Redskin	6,446	236	0	6,682	0.56
Sunhaven	25,019	1,609	0	26,628	2.22
Vanity	52,610	1,828	0	54,438	4.53
Veeglo	12,854	344	0	13,198	1.11
Vivid	20,370	221	0	20,591	1.71
Other Freestone	65,636	2,440	23	68,099	5.67
Total Freestone	869,886	119,511	95	989,492	82.35
Babygold 5	0	0	0	0	0.00
Babygold 7	70,692	1,082	0	71,774	5.98
Veecling	66,250	530	0	66,780	5.56
Other Clingstone	52,892	21,085	0	73,977	6.15
Total Clingstone	189,834	22,697	0	212,531	17.69
Total	1,059,720	142,208	95	1,202,023	100.04
District as % of Total	88.16	11.83	0.01	100.00	

Table 36 - Peach Trees by Variety and Age Group, Ontario, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Brighton	5,120	5,809	891	11,820	0.96
Canadian Harmony	6,198	31,703	15,353	53,254	4.31
Candor	3,722	24,196	10,601	38,519	3.11
Cresthaven	6,959	23,994	10,703	41,656	3.37
Earliglo	2,119	7,397	5,984	15,500	1.25
Earlired	539	2,897	1,825	5,261	0.43
Early Redhaven	9,871	31,841	7,430	49,142	3.97
Envoy	160	2,161	2,405	4,726	0.38
Garnet Beauty	19,742	48,322	26,364	94,428	7.63
Harbelle	4,170	17,556	11,673	33,399	2.70
Harbrite	5,475	15,737	9,176	30,388	2.46
Harcrest	3,856	3,484	122	7,462	0.60
Harken	1,185	7,648	5,100	13,933	1.13
Harrow Beauty	9,486	5,092	205	14,783	1.20
Harrow Diamond	32,822	11,733	730	45,285	3.66
Harson	7,653	4,071	10	11,734	0.95
Loring	14,842	44,309	33,053	92,204	7.45
Madison	891	8,678	6,019	15,588	1.26
Newhaven	3,484	9,018	620	13,122	1.06
Redhaven	32,711	113,091	61,850	207,652	16.79
Redkist	886	5,042	754	6,682	0.54
Redskin	5,382	12,541	8,705	26,628	2.15
Sunhaven	4,995	35,099	14,344	54,438	4.40
Vanity	1,785	6,673	4,740	13,198	1.07
Veeglo	3,942	12,567	4,082	20,591	1.67
Vivid	14,041	33,323	20,712	68,076	5.50
Other Freestone	7,174	14,109	10,528	31,811	2.57
Total Freestone	209,210	538,091	273,979	1,021,280	82.57
Babygold 5	16,475	33,880	21,419	71,774	5.80
Babygold 7	18,648	29,844	18,288	66,780	5.40
Veecling	26,857	38,543	8,577	73,977	5.98
Other Clingstone	504	1,266	1,367	3,137	0.25
Total Clingstone	62,484	103,533	49,651	215,668	17.43
Total	271,694	641,624	323,630	1,236,948	100.00
Age Group as % of Total	21.97	51.87	26.16	100.00	

Table 37 - Peach Trees by Variety and Age Group, Niagara District, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Brighton	3,971	5,708	891	10,570	0.97
Canadian Harmony	4,694	27,586	13,257	45,537	4.19
Candor	3,548	23,096	9,192	35,836	3.31
Cresthaven	5,599	21,672	9,650	36,921	3.41
Earliglo	2,115	6,634	5,984	14,733	1.36
Earlired	539	2,798	1,815	5,152	0.47
Early Redhaven	8,843	30,087	7,032	45,962	4.23
Envoy	130	1,912	2,239	4,281	0.39
Garnet Beauty	15,395	43,150	24,600	83,145	7.66
Harbelle	3,390	16,053	11,237	30,680	2.82
Harbrite	4,126	12,776	8,433	25,335	2.33
Harcrest	913	2,690	92	3,695	0.34
Harken	782	6238	4674	11,694	1.08
Harrow Beauty	5,499	3,617	110	9,226	0.85
Harrow Diamond	26,278	7,030	720	34,028	3.13
Harson	2,343	992	10	3,345	0.31
Loring	12,911	41,899	32,145	86,955	8.01
Madison	622	7,967	5,837	14,426	1.33
Newhaven	1,829	8,517	620	10,966	1.01
Redhaven	24,163	95,812	54,489	174,464	16.06
Redkist	862	4,930	654	6,446	0.59
Redskin	4,831	11,565	8,623	25,019	2.30
Sunhaven	4,920	33,381	14,309	52,610	4.84
Vanity	1,448	6,672	4,734	12,854	1.18
Veeglo	3,851	12,437	4,082	20,370	1.88
Vivid	13,296	31,840	20,500	65,636	6.04
Other Freestone	3,808	9,797	9,615	23,220	2.14
Total Freestone	160,706	476,856	255,544	893,106	82.24
Babygold 5	16,033	33,601	21,058	70,692	6.51
Babygold 7	18,543	29,533	18,174	66,250	6.10
Veecling	16,765	28,335	7,792	52,892	4.87
Other Clingstone	504	1,258	1,322	3,084	0.28
Total Clingstone	51,845	92,727	48,346	192,918	17.76
Total	212,551	569,583	303,890	1,086,024	100.00
Age Group as % of Total	19.57	52.45	27.98	100.00	

Table 38 - Peach Trees by Variety and Age Group, South-Western Ontario, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Brighton	1,149	100	0	1,249	0.83
Canadian Harmony	1,489	4,112	2,096	7,697	5.10
Candor	174	1,100	1,409	2,683	1.78
Cresthaven	1,360	2,322	1,053	4,735	3.14
Earliglo	4	763	0	767	0.51
Earlired	0	99	10	109	0.07
Early Redhaven	1,028	1,754	398	3,180	2.11
Envoy	30	249	166	445	0.29
Garnet Beauty	4,342	5,172	1,764	11,278	7.48
Harbelle	780	1,503	436	2,719	1.80
Harbrite	1,348	2,961	743	5,052	3.35
Harcrest	2,943	794	30	3,767	2.50
Harken	403	1410	426	2,239	1.48
Harrow Beauty	3,984	1,475	95	5,554	3.68
Harrow Diamond	6,544	4,703	10	11,257	7.46
Harson	5,310	3,079	0	8,389	5.56
Loring	1,931	2,404	908	5,243	3.48
Madison	269	711	182	1,162	0.77
Newhaven	1,655	501	0	2,156	1.43
Redhaven	8,518	17,273	7,361	33,152	21.98
Redkist	24	112	100	236	0.16
Redskin	551	976	82	1,609	1.07
Sunhaven	75	1,718	35	1,828	1.21
Vanity	337	1	6	344	0.23
Veeglo	91	130	0	221	0.15
Vivid	745	1,483	212	2,440	1.62
Other Freestone	3,357	4,299	912	8,568	5.68
Total Freestone	48,441	61,204	18,434	128,079	84.92
Babygold 5	442	279	361	1,082	0.72
Babygold 7	105	311	114	530	0.35
Veecling	10,092	10,208	785	21,085	13.98
Other Clingstone	0	8	45	53	0.03
Total Clingstone	10,639	10,806	1,305	22,750	15.08
Total	59,080	72,010	19,739	150,829	100.00
Age Group as % of Total	39.17	47.74	13.09	100.00	

SECTION VI - PEARS

1990 was the first year in which the Tree Fruit Census recorded pear trees taking into account standard versus quince rootstock. These are each analyzed separately following the initial overview of pears.

Production and Marketing

There has been a steady decline in the acres of pear trees in Ontario since 1987, down to 3,030 acres in 1990 from 3,506 acres in 1987 (Table 39). In 1990 a total of 10,704 tons was marketed. The 5 year average marketed production for the years 1986 to 1990 was 13,913 tons, compared to 13,855 tons for 1981 to 1985. Total farm value for pears in 1990 was $5.4 million. This represents approximately 13 percent of the total farm value of commercially marketed tree fruit grown in Ontario, excluding apples. During the period 1985 to 1990, farm value ranged from a high of $7.4 million in 1986 to the low in 1990.

In 1990, 62 percent of the crop was utilized for the fresh market (Table 40). The 5 year average from 1986 to 1990 was 61 percent and 54 percent for 1981 to 1985. .

Table 39 - Pears, Estimated Area, Production and Farm Value, Ontario, 1985-1990

	Area		Marketed	Farm Value	
	Cultivated	Bearing	Production	Unit	Total
	- acres -		tons	cents/lb	$'000
1985	-	3,322	14,053	22.8	6,405
1986	-	3,500	17,144	21.6	7,404
1987	-	3,506	15,258	22.1	6,755
1988	3,570	3,280	12,970	24.0	6,225
1989	3,380	3,080	13,494	22.0	5,937
1990	3,320	3,030	10,704	25.4	5,436

- Figures not available

Table 40 - Pears, Marketed Production, Ontario, 1985-1990

	1985	1986	1987	1988	1989	1990
			- tons -			
Fresh	7,579	10,100	8,977	7,874	8,469	6,687
Processing*:						
Bartlett-Canning, Etc.	6,151	6,659	5,971	4,825	4,957	3,896
Bartlett-Distilling	123	0	0	21	0	0
Bartlett-Juice	0	87	16	4	20	0
Clapp-Canning, Etc.	132	257	265	191	0	106
Kieffer-Juice	29	41	29	55	48	15
Kieffer-Distilling	39	0	0	0	0	0
Total Processing	6,474	7,044	6,281	5,096	5,025	4,017
Total Production	14,053	17,144	15,258	12,970	13,494	10,704

* Source: Ontario Tender Fruit Producers' Marketing Board

Farm Size and Regional Distribution

In 1990 there were 1,242 farms reporting pear trees, an increase of 14 percent from 1,090 farms in 1986 (Table 41). The number of farms with 100 or fewer trees increased by 34 percent, from 555 in 1986 to 746 in 1990. Those with more than 100 trees decreased slightly from 535 in 1986 to 496 in 1990, however the number with more than 1,000 trees increased slightly to 93 in 1990 from 90 in 1986.

Tree Distribution, Varieties and Age

In 1990 there were a total of 363,681 pear trees, down 4 percent from 378,961 trees in 1986 (Table 42). Of the total trees in the province, 77 percent were located in the Niagara District, 15 percent in South-Western Ontario, 4 percent in Central Ontario, 3 percent in Eastern Ontario, and the remaining 1 percent in the St. Lawrence Valley and Georgian Bay Districts (Table 43).

The most abundant varieties in 1990 were Bartlett (56%) and Bosc (27%). The largest percentage change in tree numbers since 1986 were for the varieties Flemish Beauty (61%) and Anjou (43%). Other non-commercial varieties are listed in the Appendix (Table 87).

A total of 77 percent of the trees were over 5 years of age. Twenty-three percent were between 1 to 5 years old, 15 percent between 6 and 10 years old, 19 percent between 11 and 20 years old, and 43 percent over 20 years of age. Specifically, the variety Bartlett has 57 percent over 20 years of age.

Regional Analysis

There were 11,406 pear trees in Eastern Ontario and the St. Lawrence Valley District in 1990 (Table 45). This is an 18 percent decrease from 13,871 trees reported in 1986. The majority of the trees were young with 57 percent between 1 to 5 years of age and only 7 percent over 20 years of age. The most abundant varieties were Bosc (33%), Bartlett (23%), and Flemish Beauty (21%). Since 1986 the largest percentage change in tree numbers have been in the varieties Anjou (240%), French Bartlett (-100%), Bosc (83%) and Bartlett (-69%).

There were 2,180 pear trees in the Georgian Bay District in 1990 (Table 46). This is a 56 percent increase from 1,393 trees reported in 1986. The majority of the trees were young with 48 percent between 1 to 5 years of age and only 14 percent over 20 years of age. The major varieties grown were Bartlett (40%), Bosc (34%) and Flemish Beauty (14%). Since 1986 the largest percentage change in tree numbers has been in the varieties Flemish Beauty (121%), Bosc (67%) and Bartlett (52%). Of the major varieties grown, there were no decreases in tree numbers.

In Central Ontario there were 16,053 pear trees in 1990 (Table 47). The boundary for this district changed from 1986 to 1990, and hence no comparison can be made. The majority of the trees were older with 58 percent over 20 years of age and only 15 percent between 1 and 5 years of age. The most abundant varieties were Bartlett (38%), Bosc (27%) and Flemish Beauty (15%).

There were 280,021 pear trees in the Niagara District in 1990 (Table 48). The boundary for this district changed from 1986 to 1990, and hence no comparison can be made. A large proportion of the trees were old with 45 percent over 20 years of age and 19 percent between 11 and 20 years of age. Twenty-two percent were between 1 and 5 years of age. The most popular varieties were Bartlett (58%) and Bosc (28%).

In South-Western Ontario there were 54,021 pear trees in 1990 (Table 49). The boundary for this district changed from 1986 to 1990, and hence no comparison can be made. The majority of the trees were older with 36 percent over 20 years of age and 25 percent between 11 and 20 years of age. Twenty- one percent were between 1 and 5 years of age. The most abundant varieties were Bartlett (57%) and Bosc (23%).

Table 41 - Farms Reporting Pear Trees by the Number of Trees on Farms, Ontario, 1990

No. of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Farms as % of Total
1-10	10	26	33	14	83	230	396	31.88
11-100	4	34	12	8	205	87	350	28.18
101-200	0	7	1	2	98	23	131	10.55
201-500	0	8	3	7	115	38	171	13.77
501-1,000	0	3	1	1	73	23	101	8.13
1,001-2,500	1	1	0	1	63	8	74	5.96
2,501-5,000	0	0	0	2	11	2	15	1.21
5,001 and over	0	0	0	1	3	0	4	0.32
Total Farms	15	79	50	36	651	411	1,242	100.00
Farms as % of Total	1.21	6.36	4.03	2.90	52.41	33.09	100.00	

Table 42 - Pear Trees in Ontario, 1971-1990

Variety	1971	1976	1981	1986	1990	1990 as % of 1986
Anjou	11,241	9,902	8,730	10,457	14,942	142.89
Bartlett	318,874	264,573	226,999	235,047	203,380	86.53
Bosc	58,649	61,870	64,877	92,177	99,272	107.70
Clapp	21,721	22,339	20,607	20,919	18,620	89.01
Flemish Beauty	*	*	*	6,828	10,997	161.06
French Bartlett	*	*	*	*	7,716	n/a
Other Varieties	114,802	71,624	47,156	13,533	8,754	n/a
Total	525,287	430,308	368,369	378,961	363,681	95.97

* Not specified in these years, included in 'Other Varieties' n/a - Not applicable

Table 43 - Pear Trees by Variety and District, Ontario, 1990

Variety	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Variety as % of Total
Anjou	300	757	134	1,015	9,589	3,147	14,942	4.11
Bartlett	390	2,220	863	6,051	163,005	30,851	203,380	55.92
Bosc	155	3,606	742	4,359	77,832	12,578	99,272	27.30
Clapp	182	618	116	1,929	12,616	3,159	18,620	5.12
Flemish Beauty	296	2,048	311	2,347	4,826	1,169	10,997	3.02
French Bartlett	0	0	0	83	7,588	45	7,716	2.12
Other Varieties	8	826	14	269	4,565	3,072	8,754	2.41
Total	1,331	10,075	2,180	16,053	280,021	54,021	363,681	100.00
District as % of Total	0.37	2.77	0.60	4.41	77.00	14.85	100.00	

Table 44 - Pear Trees by Variety and Age Group, Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	7,199	1,839	1,913	3,991	14,942	4.11
Bartlett	27,668	22,315	37,953	115,444	203,380	55.92
Bosc	33,217	20,819	18,353	26,883	99,272	27.30
Clapp	3,082	5,444	5,405	4,689	18,620	5.12
Flemish Beauty ..	5,378	1,415	2,020	2,184	10,997	3.02
French Bartlett ...	2,624	1,622	2,254	1,216	7,716	2.12
Other Varieties ...	3,366	1,292	1,814	2,282	8,754	2.41
Total	82,534	54,746	69,712	156,689	363,681	100.00
Age Group as % of Total	22.69	15.05	19.17	43.09	100.00	

Table 45 - Pear Trees by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	704	280	73	0	1,057	9.27
Bartlett	817	727	568	498	2,610	22.88
Bosc	3,159	394	95	113	3,761	32.97
Clapp	206	196	257	141	800	7.02
Flemish Beauty ..	959	480	836	69	2,344	20.55
French Bartlett ...	0	0	0	0	0	0.00
Other Varieties ...	707	59	40	28	834	7.31
Total	6,552	2,136	1,869	849	11,406	100.00
Age Group as % of Total	57.44	18.73	16.39	7.44	100.00	

Table 46 - Pear Trees by Variety and Age Group, Georgian Bay District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	84	22	15	13	134	6.15
Bartlett	541	185	72	65	863	39.59
Bosc	231	303	4	204	742	34.04
Clapp	25	77	5	9	116	5.32
Flemish Beauty ..	173	113	1	24	311	14.26
French Bartlett ...	0	0	0	0	0	0.00
Other Varieties ...	0	0	6	8	14	0.64
Total	1,054	700	103	323	2,180	100.00
Age Group as % of Total	48.35	32.11	4.72	14.82	100.00	

Table 47 - Pear Trees by Variety and Age Group, Central Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	227	401	209	178	1,015	6.32
Bartlett	664	801	262	4,324	6,051	37.69
Bosc	932	755	254	2,418	4,359	27.15
Clapp	269	662	199	799	1,929	12.02
Flemish Beauty ..	245	100	530	1,472	2,347	14.62
French Bartlett ...	0	80	0	3	83	0.52
Other Varieties ...	5	4	141	119	269	1.68
Total	2,342	2,803	1,595	9,313	16,053	100.00
Age Group as % of Total	14.59	17.46	9.94	58.01	100.00	

Table 48 - Pear Trees by Variety and Age Group, Niagara District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	4,860	888	819	3,022	9,589	3.42
Bartlett	22,744	15,792	28,844	95,625	163,005	58.21
Bosc	24,423	17,324	15,012	21,073	77,832	27.80
Clapp	2,288	2,454	4,530	3,344	12,616	4.51
Flemish Beauty ..	3,061	680	581	504	4,826	1.72
French Bartlett ...	2,624	1,542	2,209	1,213	7,588	2.71
Other Varieties ...	1,299	519	840	1,907	4,565	1.63
Total	61,299	39,199	52,835	126,688	280,021	100.00
Age Group as % of Total	21.89	14.00	18.87	45.24	100.00	

Table 49 - Pear Trees by Variety and Age Group, South-Western Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11-20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	1,324	248	797	778	3,147	5.83
Bartlett	2,902	4,810	8,207	14,932	30,851	57.11
Bosc	4,472	2,043	2,988	3,075	12,578	23.28
Clapp	294	2,055	414	396	3,159	5.85
Flemish Beauty ..	940	42	72	115	1,169	2.16
French Bartlett ...	0	0	45	0	45	0.08
Other Varieties ...	1,355	710	787	220	3,072	5.69
Total	11,287	9,908	13,310	19,516	54,021	100.00
Age Group as % of Total	20.89	18.34	24.64	36.13	100.00	

Pear Trees on Standard Rootstock

Of the total 1,242 farms reporting pear trees in Ontario, 1,191 of them (96%) reported pear trees on standard rootstock in 1990 (Table 50). The majority of these farms were in Niagara District (55%) and South-Western Ontario (31%). Sixty-one percent of all farms had 100 or less trees each.

There was a total of 317,505 trees on standard rootstock, 87 percent of the total 363,681 pear trees within Ontario (Table 51). The most abundant varieties were Bartlett (57%) and Bosc (28%). Of the total trees, 49 percent were over 20 years of age and 16 percent were from 1 to 5 years of age (Table 52). Specifically, 63 percent of the variety Bartlett were over 20 years of age.

Within Eastern Ontario and the St. Lawrence Valley District there were 10,354 trees of which 62 percent were less than 6 years of age (Table 53). In the Georgian Bay District there were 1,922 trees of which 43 percent were less than 6 years old (Table 54). Similarly, there were 15,876 trees in Central Ontario with 15 percent less than 6 years old (Table 55), 244,493 trees in Niagara District with 14 percent less than 6 years old (Table 56), and 44,860 trees in South-Western Ontario with 16 percent less than 6 years old (Table 57).

Table 50 - Farms Reporting Pear Trees on Standard Rootstock by the Number of Trees on Farms, Ontario, 1990

No. of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Farms as % of Total
1-10	3	31	33	14	86	219	386	32.41
11-100	4	22	11	9	211	78	335	28.13
101-200	0	9	0	2	104	19	134	11.25
201-500	0	6	3	6	117	29	161	13.52
501-1,000	0	3	1	1	75	16	96	8.06
1,001-2,500	1	1	0	1	53	7	63	5.29
2,501-5,000	0	0	0	2	9	2	13	1.09
5,001 and over	0	0	0	1	2	0	3	0.25
Total Farms	8	72	48	36	657	370	1,191	100.00
Farms as % of Total	0.67	6.05	4.03	3.02	55.16	31.07	100.00	

Table 51 - Pear Trees on Standard Rootstock by Variety and District, Ontario, 1990

Variety	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Variety as % of Total
Anjou	300	702	54	1,015	6,046	1,707	9,824	3.10
Bartlett	389	1,864	723	5,959	146,464	26,362	181,761	57.25
Bosc	155	3,579	742	4,356	69,802	10,500	89,134	28.07
Clapp	181	516	115	1,929	9,780	2,884	15,405	4.85
Flemish Beauty	286	1,606	274	2,347	2,995	1,039	8,547	2.69
French Bartlett	0	0	0	3	6,519	45	6,567	2.07
Other Varieties	0	776	14	267	2,887	2,323	6,267	1.97
Total	1,311	9,043	1,922	15,876	244,493	44,860	317,505	100.00
District as % of Total	0.41	2.85	0.61	5.00	77.00	14.13	100.00	

Table 52 - Pear Trees on Standard Rootstock by Variety and Age Group, Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	3,393	1,134	1,454	3,843	9,824	3.10
Bartlett	14,323	18,907	34,270	114,261	181,761	57.25
Bosc	24,492	20,462	17,798	26,382	89,134	28.07
Clapp	1,250	4,795	4,700	4,660	15,405	4.85
Flemish Beauty ..	3,598	1,198	1,625	2,126	8,547	2.69
French Bartlett ...	2,143	1,530	1,774	1,120	6,567	2.07
Other Varieties ...	2,015	964	1,357	1,931	6,267	1.97
Total	51,214	48,990	62,978	154,323	317,505	100.00
Age Group as % of Total	16.13	15.43	19.84	48.60	100.00	

Table 53 - Pear Trees on Standard Rootstock by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	702	235	65	0	1,002	9.68
Bartlett	774	611	371	497	2,253	21.76
Bosc	3,157	369	95	113	3,734	36.06
Clapp	196	144	217	140	697	6.73
Flemish Beauty ..	860	447	516	69	1,892	18.27
French Bartlett ...	0	0	0	0	0	0.00
Other Varieties ...	699	33	40	4	776	7.50
Total	6,388	1,839	1,304	823	10,354	100.00
Age Group as % of Total	61.70	17.76	12.59	7.95	100.00	

Table 54 - Pear Trees on Standard Rootstock by Variety and Age Group, Georgian Bay District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	12	22	7	13	54	2.81
Bartlett	412	183	64	64	723	37.62
Bosc	231	303	4	204	742	38.60
Clapp	25	76	5	9	115	5.98
Flemish Beauty ..	138	113	1	22	274	14.26
French Bartlett ...	0	0	0	0	0	0.00
Other Varieties ...	0	0	6	8	14	0.73
Total	818	697	87	320	1,922	100.00
Age Group as % of Total	42.56	36.26	4.53	16.65	100.00	

Table 55 - Pear Trees on Standard Rootstock by Variety and Age Group, Central Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	227	401	209	178	1,015	6.39
Bartlett	664	711	260	4,324	5,959	37.54
Bosc	929	755	254	2,418	4,356	27.44
Clapp	269	662	199	799	1,929	12.15
Flemish Beauty ..	245	100	530	1,472	2,347	14.78
French Bartlett ...	0	0	0	3	3	0.02
Other Varieties ...	5	4	141	117	267	1.68
Total	2,339	2,633	1,593	9,311	15,876	100.00
Age Group as % of Total	14.73	16.59	10.03	58.65	100.00	

Table 56 - Pear Trees on Standard Rootstock by Variety and Age Group, Niagara District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	1,916	395	753	2,982	6,046	2.47
Bartlett	10,826	13,607	27,239	94,792	146,464	59.91
Bosc	17,160	17,162	14,783	20,697	69,802	28.55
Clapp	666	1,925	3,866	3,323	9,780	4.00
Flemish Beauty ..	1,430	530	546	489	2,995	1.22
French Bartlett ...	2,143	1,530	1,729	1,117	6,519	2.67
Other Varieties ...	352	386	543	1,606	2,887	1.18
Total	34,493	35,535	49,459	125,006	244,493	100.00
Age Group as % of Total	14.11	14.53	20.23	51.13	100.00	

Table 57 - Pear Trees on Standard Rootstock by Variety and Age Group, South-Western Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11-20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	536	81	420	670	1,707	3.80
Bartlett	1,647	3,795	6,336	14,584	26,362	58.76
Bosc	3,015	1,873	2,662	2,950	10,500	23.41
Clapp	94	1,988	413	389	2,884	6.43
Flemish Beauty ..	925	8	32	74	1,039	2.32
French Bartlett ...	0	0	45	0	45	0.10
Other Varieties ...	959	541	627	196	2,323	5.18
Total	7,176	8,286	10,535	18,863	44,860	100.00
Age Group as % of Total	16.00	18.47	23.48	42.05	100.00	

Pear Trees on Quince Rootstock

Of the total 1,242 farms reporting pear trees in Ontario, 241 of them (19%) reported trees on quince rootstock in 1990 (Table 58). The majority of these farms were in Niagara District (49%) and South-Western Ontario (33%). Sixty-seven percent of all farms had 100 or fewer trees.

There was a total of 46,176 pear trees on quince rootstock, 13 percent of the total 363,681 pear trees within Ontario (Table 59). The most abundant varieties on standard rootstock were Bartlett (47%) and Bosc (22%). Of the total trees, 68 percent were less than 6 years of age and only 5 percent were over 20 years of age (Table 60). Specifically, 86 percent of the variety Bosc were less than 6 years old.

Within Eastern Ontario and the St. Lawrence Valley District there were 1,052 trees of which 16 percent were less than 6 years of age (Table 61). In the Georgian Bay District there were 258 trees of which 91 percent are less than 6 years old (Table 62). Similarly, there were 177 trees in Central Ontario in which only 2 percent are less than 6 years old (Table 63), 35,528 trees in Niagara District with 75 percent less than 6 years old (Table 64), and 9,161 trees in South-Western Ontario with 45 percent less than 6 years of age (Table 65).

Table 58 - Farms Reporting Pear Trees on Quince Rootstock by the Number of Trees on Farms, Ontario, 1990

No. of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Farms as % of Total
1-10	4	7	6	3	22	37	79	32.78
11-100	0	18	3	0	41	20	82	34.03
101-200	0	0	1	1	15	8	25	10.37
201-500	0	1	0	0	20	10	31	12.86
501-1,000	0	0	0	0	13	4	17	7.05
1,001-2 500	0	0	0	0	5	0	5	2.08
2,501-5,000	0	0	0	0	2	0	2	0.83
5,001 and over .	0	0	0	0	0	0	0	0.00
Total Farms	4	26	10	4	118	79	241	100.00
Farms as % of Total	1.66	10.79	4.15	1.66	48.96	32.78	100.00	

Table 59 - Pear Trees on Quince Rootstock by Variety and District, Ontario, 1990

Variety	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Variety as % of Total
Anjou	0	55	80	0	3,543	1,440	5,118	11.08
Bartlett	1	356	140	92	16,541	4,489	21,619	46.82
Bosc	0	27	0	3	8,030	2,078	10,138	21.95
Clapp	1	102	1	0	2,836	275	3,215	6.96
Flemish Beauty	10	442	37	0	1,831	130	2,450	5.31
French Bartlett .	0	0	0	80	1,069	0	1,149	2.49
Other Varieties .	8	50	0	2	1,678	749	2,487	5.39
Total	20	1,032	258	177	35,528	9,161	46,176	100.00
District as % of Total	0.04	2.24	0.56	0.38	76.94	19.84	100.00	

Table 60 - Pear Trees on Quince Rootstock by Variety and Age Group, Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	3,806	705	459	148	5,118	11.08
Bartlett	13,345	3,408	3,683	1,183	21,619	46.82
Bosc	8,725	357	555	501	10,138	21.95
Clapp	1,832	649	705	29	3,215	6.96
Flemish Beauty ..	1,780	217	395	58	2,450	5.31
French Bartlett ...	481	92	480	96	1,149	2.49
Other Varieties ...	1,351	328	457	351	2,487	5.39
Total	31,320	5,756	6,734	2,366	46,176	100.00
Age Group as % of Total	67.83	12.47	14.58	5.12	100.00	

Table 61 - Pear Trees on Quince Rootstock by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	2	45	8	0	55	5.23
Bartlett	43	116	197	1	357	33.93
Bosc	2	25	0	0	27	2.57
Clapp	10	52	40	1	103	9.79
Flemish Beauty ..	99	33	320	0	452	42.97
French Bartlett ...	0	0	0	0	0	0.00
Other Varieties ...	8	26	0	24	58	5.51
Total	164	297	565	26	1,052	100.00
Age Group as % of Total	15.59	28.23	53.71	2.47	100.00	

Table 62 - Pear Trees on Quince Rootstock by Variety and Age Group, Georgian Bay District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	72	0	8	0	80	31.01
Bartlett	129	2	8	1	140	54.26
Bosc	0	0	0	0	0	0.00
Clapp	0	1	0	0	1	0.39
Flemish Beauty ..	35	0	0	2	37	14.34
French Bartlett ...	0	0	0	0	0	0.00
Other Varieties ...	0	0	0	0	0	0.00
Total	236	3	16	3	258	100.00
Age Group as % of Total	91.48	1.16	6.20	1.16	100.00	

Table 63 - Pear Trees on Quince Rootstock by Variety and Age Group, Central Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	0	0	0	0	0	0.00
Bartlett	0	90	2	0	92	51.98
Bosc	3	0	0	0	3	1.69
Clapp	0	0	0	0	0	0.00
Flemish Beauty ..	0	0	0	0	0	0.00
French Bartlett ...	0	80	0	0	80	45.20
Other Varieties ...	0	0	0	2	2	1.13
Total	3	170	2	2	177	100.00
Age Group as % of Total	1.69	96.05	1.13	1.13	100.00	

Table 64 - Pear Trees on Quince Rootstock by Variety and Age Group, Niagara District, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	2,944	493	66	40	3,543	9.97
Bartlett	11,918	2,185	1,605	833	16,541	46.56
Bosc	7,263	162	229	376	8,030	22.60
Clapp	1,622	529	664	21	2,836	7.98
Flemish Beauty ..	1,631	150	35	15	1,831	5.16
French Bartlett ...	481	12	480	96	1,069	3.01
Other Varieties ...	947	133	297	301	1,678	4.72
Total	26,806	3,664	3,376	1,682	35,528	100.00
Age Group as % of Total	75.45	10.31	9.50	4.74	100.00	

Table 65 - Pear Trees on Quince Rootstock by Variety and Age Group, South-Western Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11-20 Years	21 Years & Over	Total	Variety as % of Total
Anjou	788	167	377	108	1,440	15.72
Bartlett	1,255	1,015	1,871	348	4,489	49.00
Bosc	1,457	170	326	125	2,078	22.68
Clapp	200	67	1	7	275	3.00
Flemish Beauty ..	15	34	40	41	130	1.42
French Bartlett ...	0	0	0	0	0	0.00
Other Varieties ...	396	169	160	24	749	8.18
Total	4,111	1,622	2,775	653	9,161	100.00
Age Group as % of Total	44.87	17.71	30.29	7.13	100.00	

SECTION VII - PLUMS AND PRUNES

Production and Marketing

Japanese and European plums are the only species of commercial importance in Ontario. In this publication, European plums refer to varieties which have been reported as prunes in editions of the Fruit Tree Census prior to 1981.

There was a total of 1,430 bearing acres of plums and prunes in Ontario in 1990, a continuing decline since 1985 (Table 66). A total of 1,998 tons were marketed. The 5 year average marketed production for the years 1986 to 1990 was 3,211 tons, compared to 3,279 tons for 1981 to 1985. Total farm value for plums and prunes in 1990 was $1.6 million, approximately 4 percent of the total farm value for commercial tree fruits in the province excluding apples. During the period 1985 to 1990, farm value ranged from a high of $3.0 million in 1986 to the low of $1.6 million in 1990.

In 1990, 98 percent of the crop was utilized for the fresh market (Table 67). The 5 year average from 1986 to 1990 was 97 percent and 96 percent for 1981 to 1985.

Table 66 - Plums and Prunes, Estimated Area, Production and Farm Value, Ontario, 1985-1990

	Area		Marketed	Farm Value	
	Cultivated	Bearing	Production	Unit	Total
	- acres -		tons	cents/lb	$'000
1985	-	1,824	3,602	41.0	2,951
1986	-	1,650	5,438	27.6	3,003
1987	-	1,686	3,550	23.5	1,671
1988	1,680	1,470	2,627	31.9	1,677
1989	1,600	1,430	2,441	37.3	1,821
1990	1,590	1,430	1,998	39.1	1,561

- Figures not available

Table 67 - Plums and Prunes, Marketed Production, Ontario, 1985-1990

	1985	1986	1987	1988	1989	1990
			- tons -			
Fresh	3,448	5,349	3,417	2,550	2,348	1,966
Processing*:						
Plums	49	25	33	15	15	32
Prunes	104	54	67	57	78	0
Distilling	1	10	33	5	0	0
Total Processing	154	89	133	77	93	32
Total Production	3,602	5,438	3,550	2,627	2,441	1,998

* Source: Ontario Tender Fruit Producers' Marketing Board

JAPANESE PLUMS

Farm Size and Regional Distribution

In 1990 there were 685 farms reporting Japanese plum trees, an increase of 15 percent from 596 farms in 1986 (Table 68). The number of farms with 100 or fewer trees increased by 14 percent, from 390 farms in 1986 to 445 farms in 1990. There was also a 26 percent increase in the number of farms with more than 500 trees, up to 43 in 1990 from 34 in 1986. The majority of the farms are located in the Niagara District (70%) and South-Western Ontario (25%).

Tree Distribution, Varieties and Age

In 1990 there were a total of 99,120 Japanese plum trees, up 16 percent from 85,302 trees in 1986 (Table 69). This is a continuation of the increasing tree numbers which began in 1976. Of the total trees in Ontario, 86 percent are located in the Niagara District and 13 percent in South-Western Ontario (Table 70).

The most abundant varieties in 1990 were Early Golden (42%) and Shiro (39%). The largest percentage change in the tree numbers since 1986 were for the varieties, Early Golden (26%) and Shiro (24%). Other non-commercial varieties are listed in the Appendix (Table 89).

A total of 47 percent of the trees were less than 8 years of age and 16 percent were over 15 years of age (Table 71). Specifically, the variety Vanier had 68 percent under the age of 8 years and Ozark Premier had 50 percent in that age grouping.

Regional Analysis

The number of Japanese plum trees in Eastern Ontario and the St. Lawrence Valley District had decreased by 55 percent, from 673 trees in 1986 to 306 trees in 1990 (Table 72). However, 65 percent of all existing trees were less than 8 years of age, indicating that replacement plantings have been taking place. The major varieties grown are Burbank (32%), Shiro (19%), and Ozark Premier (18%). The largest percentage change in the number of trees since 1986 were for the varieties Early Golden (-81%), Shiro (-54%), and Ozark Premier (-50%).

There are a total of 359 Japanese plum trees in Central Ontario and Georgian Bay District (Table 73). Eighty-two percent of the trees are less than 8 years of age. The major varieties grown are Early Golden (35%) and Shiro (31%). The boundaries assigned for the district of Central Ontario changed between 1986 and 1990 (see Foreword on page v), but as there was no boundary change for Georgian Bay, comparison is possible. In 1986, there were 5 farms reporting 92 trees. In 1990 there were 6 farms with 147 trees, a 60 percent increase in the number of trees

In the Niagara District there were a total of 85,457 trees (Table 74). Forty-five percent were less than 8 years of age. The major varieties grown were Early Golden (43%) and Shiro (39%). A comparison with 1986 is not possible as the district boundaries have been changed.

In South-Western Ontario there were a total of 12,998 Japanese plum trees (Table 75). Fifty-seven percent were under 8 years of age. The major varieties grown were Shiro (40%) and Early Golden (36%). As with the Niagara District, a comparison with 1986 is not possible due to changes in the district boundaries.

Table 68 - Farms Reporting Japanese Plum Trees by the Number of Trees on Farms, Ontario, 1990

No. of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Farms as % of Total
1-10	4	10	5	3	68	85	175	25.55
11-100	1	7	0	4	207	51	270	39.42
101-200	0	0	1	0	75	19	95	13.87
201-500	0	0	0	0	87	15	102	14.89
501-1,000	0	0	0	0	27	2	29	4.23
1,001-2,500	0	0	0	0	12	1	13	1.90
2,501-5,000	0	0	0	0	1	0	1	0.14
Total Farms	5	17	6	7	477	173	685	100.00
Farms as % of Total	0.73	2.48	0.88	1.02	69.63	25.26	100.00	

Table 69 - Japanese Plum Trees in Ontario, 1971-1990

Variety	1971	1976	1981	1986	1990	1990 as % of 1986
Burbank	11,148	8,149	8,866	9,135	7,630	83.52
Early Golden	22,519	20,658	21,691	32,687	41,250	126.20
Ozark Premier	*	1,833	3,667	7,039	5,671	80.57
Shiro	20,636	18,473	19,327	31,233	38,666	123.80
Vanier	*	*	*	3,161	3,381	106.96
Other Varieties	6,017	4,394	3,935	2,047	2,522	123.20
Total	60,320	53,507	57,486	85,302	99,120	116.20

* Not specified in these years, included in 'Other Varieties'

Table 70 - Japanese Plum Trees by Variety and District, Ontario, 1990

Variety	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Variety as % of Total
Burbank	1	98	20	28	6,229	1,254	7,630	7.70
Early Golden	13	37	60	64	36,375	4,701	41,250	41.62
Ozark Premier	0	54	5	13	4,723	876	5,671	5.72
Shiro	0	57	57	53	33,256	5,243	38,666	39.01
Vanier	0	9	5	0	2,888	479	3,381	3.41
Other Varieties	23	14	0	54	1,986	445	2,522	2.54
Total	37	269	147	212	85,457	12,998	99,120	100.00
District as % of Total	0.04	0.27	0.15	0.21	86.22	13.11	100.00	

Table 71 - Japanese Plum Trees by Variety and Age Group, Ontario, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Burbank	3,136	3,452	1,042	7,630	7.70
Early Golden	19,465	15,519	6,266	41,250	41.62
Ozark Premier	2,860	2,498	313	5,671	5.72
Shiro	17,817	14,304	6,545	38,666	39.01
Vanier	2,304	970	107	3,381	3.41
Other Varieties	519	394	1,609	2,522	2.54
Total	46,101	37,137	15,882	99,120	100.00
Age Group as % of Total	46.51	37.47	16.02	100.00	

Table 72 - Japanese Plum Trees by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Burbank	35	64	0	99	32.35
Early Golden	42	8	0	50	16.34
Ozark Premier	41	13	0	54	17.65
Shiro	36	21	0	57	18.63
Vanier	9	0	0	9	2.94
Other Varieties	37	0	0	37	12.09
Total	200	106	0	306	100.00
Age Group as % of Total	65.36	34.64	0.00	100.00	

Table 73 - Japanese Plum Trees by Variety and Age Group, Central Ontario and Georgian Bay District, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Burbank	36	12	0	48	13.37
Early Golden	117	7	0	124	34.54
Ozark Premier	5	13	0	18	5.02
Shiro	83	21	6	110	30.64
Vanier	0	5	0	5	1.39
Other Varieties	54	0	0	54	15.04
Total	295	58	6	359	100.00
Age Group as % of Total	82.17	16.16	1.67	100.00	

Table 74 - Japanese Plum Trees by Variety and Age Group, Niagara District, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Burbank	2,231	3,031	967	6,229	7.29
Early Golden	16,588	13,669	6,118	36,375	42.56
Ozark Premier	2,412	2,003	308	4,723	5.53
Shiro	14,677	12,415	6,164	33,256	38.92
Vanier	2,021	762	105	2,888	3.38
Other Varieties	238	227	1,521	1,986	2.32
Total	38,167	32,107	15,183	85,457	100.00
Age Group as % of Total	44.66	37.57	17.77	100.00	

Table 75 - Japanese Plum Trees by Variety and Age Group, South-Western Ontario, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Burbank	834	345	75	1,254	9.65
Early Golden	2,718	1,835	148	4,701	36.17
Ozark Premier	402	469	5	876	6.74
Shiro	3,021	1,847	375	5,243	40.34
Vanier	274	203	2	479	3.68
Other Varieties	190	167	88	445	3.42
Total	7,439	4,866	693	12,998	100.00
Age Group as % of Total	57.23	37.44	5.33	100.00	

EUROPEAN PLUMS

Farm Size and Regional Distribution

In 1990 there were 831 farms reporting European plum trees, an increase of 13 percent from 734 farms in 1986 (Table 76). The number of farms with 100 or fewer trees increased by 24 percent, from 500 farms in 1986 to 618 farms in 1990. There was also a 20 percent increase in the number of farms with more than 500 trees, up to 36 from 30 in 1986. The majority of the farms were located in the Niagara District (57%) and South-Western Ontario (31%).

Tree Distribution, Varieties and Age

In 1990 there were a total of 93,046 European plum trees, down slightly from 93,119 trees in 1986 (Table 77). The number of trees has been declining since 1981. Of the total trees in Ontario, 71 percent are located in the Niagara District and 26 percent in South-Western Ontario (Table 78).

The most abundant varieties in 1990 were Stanley (20%), Italian (18%), and Valor (11%). The largest percentage change in tree numbers since 1986 was in the varieties California Blue (111%), German (60%), Damson (-44%), Valor (35%) and Bluefre (-34%). Other non-commercial varieties are listed in the Appendix (Table 90).

A total of 42 percent of the trees were less than 8 years of age and 12 percent were over 15 years of age (Table 79). Specifically, the variety Voyageur had 92 percent under the age of 8 years, Vision had 52 percent and Damson had 50 percent under 8 years of age.

Regional Analysis

The number of European plum trees in Eastern Ontario and the St. Lawrence Valley District declined by 64 percent from 3,384 trees in 1986 to 1,222 trees in 1990 (Table 80). Also 35 percent of the trees were less than 8 years of age. The major varieties grown were Stanley (20%) and Damson (16%). The largest percentage change in tree numbers since 1986 was in the varieties Damson (109%), Vision (-90%), Italian (-83%) and Stanley (-82%).

There were a total of 2,138 European plum trees in Central Ontario and the Georgian Bay District (Table 81). Sixty-eight percent of the trees are less than 8 years of age. The major varieties grown are Italian (20%) and Stanley (8%). The boundaries assigned for the district of Central Ontario changed between 1986 and 1990 (see Foreword on page v), but as there was no boundary change for Georgian Bay, comparison is possible. In 1986, there were 22 farms reporting 1,147 trees and in 1990 there were 37 farms with 1,155 trees, only a slight increase in tree numbers.

In the Niagara District there were a total of 65,655 trees (Table 82). Forty percent are less than 8 years of age. The major varieties grown were Italian (21%), Stanley (20%), Valor (12%) and Bluefre (11%). A comparison with 1986 is not possible as the district boundaries have been changed.

In South-Western Ontario there were a total of 24,031 European plum trees (Table 83). Forty-three percent were under 8 years of age. The major varieties grown were Stanley (21%), California Blue (17%), and Italian (12%). As with the Niagara District, a comparison with 1986 is not possible due to changes in the district boundaries.

Table 76 - Farms Reporting European Plum Trees by the Number of Trees on Farms, Ontario, 1990

No. of Trees	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Farms as % of Total
1-10	8	20	28	9	102	121	288	34.66
11-100	5	9	8	3	217	88	330	39.71
101-200	0	3	0	1	57	32	93	11.19
201-500	0	1	0	1	68	14	84	10.11
501-1,000	0	0	1	0	20	3	24	2.89
1,001-2,500	0	0	0	0	9	1	10	1.20
2,501-5,000	0	0	0	0	0	2	2	0.24
5,001 and over .	0	0	0	0	0	0	0	0.00
Total Farms	13	33	37	14	473	261	831	100.00
Farms as % of Total	1.56	3.97	4.45	1.69	56.92	31.41	100.00	

Table 77 - European Plum Trees in Ontario, 1971-1990

Variety	1971	1976	1981	1986	1990	1990 as % of 1986
Bluebell	*	*	*	*	1,883	n/a
Bluefre	*	10,177	20,171	13,143	8,689	66.11
California Blue	1,894	1,940	2,789	3,001	6,342	211.33
Damson	7,904	5,848	2,514	3,236	1,828	56.49
Valor	*	2,430	6,149	7,538	10,210	135.45
Verity	*	2,236	3,897	4,902	5,037	102.75
Vision	*	6,218	4,137	2,995	2,801	93.52
Voyageur (V63022)	*	*	*	*	2,047	n/a
German	3,861	3,140	2,386	1,212	1,936	159.74
Italian (Fellenberg)	34,777	27,799	21,250	16,389	16,960	103.48
Stanley	33,481	26,793	25,882	21,570	18,822	87.26
Veeblue	*	682	2,841	4,631	4,094	88.40
Other Varieties	21,036	12,932	9,584	14,502	12,397	n/a
Total	102,953	100,195	101,600	93,119	93,046	99.92

* Not specified in these years, included in 'Other Varieties'

n/a Not applicable

Table 78 - European Plum Trees by Variety and District, Ontario, 1990

Variety	St. Lawrence Valley	Eastern Ontario	Georgian Bay	Central Ontario	Niagara	South-Western Ontario	Total	Variety as % of Total
Bluebell	0	100	0	32	1,666	85	1,883	2.02
Bluefre	0	100	2	77	7,486	1,024	8,689	9.34
California Blue	14	53	13	44	2,209	4,009	6,342	6.82
Damson	17	182	29	24	1,077	499	1,828	1.97
Valor	5	77	15	117	7,675	2,321	10,210	10.97
Verity	4	55	25	15	4,423	515	5,037	5.41
Vision	4	5	0	63	2,153	576	2,801	3.01
Voyageur (V63022)	0	25	0	0	1,397	625	2,047	2.20
German	21	6	51	65	1,092	701	1,936	2.08
Italian (Fellenberg)	9	86	81	345	13,522	2,917	16,960	18.23
Stanley	16	226	84	92	13,330	5,074	18,822	20.23
Veeblue	0	12	0	50	2,881	1,151	4,094	4.40
Other Varieties	35	170	855	59	6,744	4,534	12,397	13.32
Total	125	1,097	1,155	983	65,655	24,031	93,046	100.00
District as % of Total	0.13	1.18	1.24	1.06	70.56	25.83	100.00	

Table 79 - European Plum Trees by Variety and Age Group, Ontario, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Bluebell	739	1,144	0	1,883	2.02
Bluefre	1,414	6,018	1,257	8,689	9.34
California Blue	1,441	4,706	195	6,342	6.82
Damson	909	424	495	1,828	1.97
Valor	4,696	4,943	571	10,210	10.97
Verity	2,182	2,536	319	5,037	5.41
Vision	1,456	1,107	238	2,801	3.01
Voyageur (V63022)	1,878	168	1	2,047	2.20
German	909	539	488	1,936	2.08
Italian (Fellenberg)	6,210	7,407	3,343	16,960	18.23
Stanley	5,239	10,047	3,536	18,822	20.23
Veeblue	2,543	1,474	77	4,094	4.40
Other Varieties	9,126	2,820	451	12,397	13.32
Total	38,742	43,333	10,971	93,046	100.00
Age Group as % of Total	41.64	46.57	11.79	100.00	

Table 80 - European Plum Trees by Variety and Age Group, Eastern Ontario and St. Lawrence Valley District, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Bluebell	0	100	0	100	8.18
Bluefre	90	10	0	100	8.18
California Blue	21	45	1	67	5.48
Damson	52	127	20	199	16.29
Valor	50	32	0	82	6.71
Verity	32	27	0	59	4.83
Vision	4	5	0	9	0.74
Voyageur (V63022)	25	0	0	25	2.05
German	26	1	0	27	2.21
Italian (Fellenberg)	10	75	10	95	7.77
Stanley	71	141	30	242	19.80
Veeblue	4	0	8	12	0.98
Other Varieties	39	162	4	205	16.78
Total	424	725	73	1,222	100.00
Age Group as % of Total	34.70	59.33	5.97	100.00	

Table 81 - European Plum Trees by Variety and Age Group, Central Ontario and Georgian Bay District, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Bluebell	25	7	0	32	1.50
Bluefre	34	30	15	79	3.69
California Blue	38	19	0	57	2.67
Damson	33	15	5	53	2.48
Valor	75	37	20	132	6.17
Verity	5	25	10	40	1.87
Vision	30	13	20	63	2.95
Voyageur (V63022)	0	0	0	0	0.00
German	94	8	14	116	5.43
Italian (Fellenberg)	130	294	2	426	19.92
Stanley	87	41	48	176	8.23
Veeblue	30	0	20	50	2.34
Other Varieties	881	5	28	914	42.75
Total	1,462	494	182	2,138	100.00
Age Group as % of Total	68.38	23.11	8.51	100.00	

Table 82 - European Plum Trees by Variety and Age Group, Niagara District, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Bluebell	644	1,022	0	1,666	2.54
Bluefre	830	5,488	1,168	7,486	11.40
California Blue	931	1,095	183	2,209	3.36
Damson	485	175	417	1,077	1.64
Valor	3,654	3,564	457	7,675	11.69
Verity	1,983	2,191	249	4,423	6.74
Vision	1,132	843	178	2,153	3.28
Voyageur (V63022)	1,229	167	1	1,397	2.13
German	658	311	123	1,092	1.66
Italian (Fellenberg)	5,265	5,476	2,781	13,522	20.60
Stanley	3,668	6,563	3,099	13,330	20.30
Veeblue	1,623	1,209	49	2,881	4.39
Other Varieties	4,374	2,045	325	6,744	10.27
Total	26,476	30,149	9,030	65,655	100.00
Age Group as % of Total	40.33	45.92	13.75	100.00	

Table 83 - European Plum Trees by Variety and Age Group, South-Western Ontario, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Bluebell	70	15	0	85	0.35
Bluefre	460	490	74	1,024	4.26
California Blue	451	3,547	11	4,009	16.68
Damson	339	107	53	499	2.08
Valor	917	1,310	94	2,321	9.66
Verity	162	293	60	515	2.14
Vision	290	246	40	576	2.40
Voyageur (V63022)	624	1	0	625	2.60
German	131	219	351	701	2.92
Italian (Fellenberg)	805	1,562	550	2,917	12.14
Stanley	1,413	3,302	359	5,074	21.11
Veeblue	886	265	0	1,151	4.79
Other Varieties	3,832	608	94	4,534	18.87
Total	10,380	11,965	1,686	24,031	100.00
Age Group as % of Total	43.19	49.79	7.02	100.00	

APPENDIX - TABULATIONS FOR OTHER VARIETIES OF TENDER FRUIT

Table 84 - Sweet Cherry Trees by Variety and Age Group, Other Varieties, Ontario, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Cuvelier	360	68	0	428	8.76
Early Giant	0	0	15	15	0.31
Early Lyons	0	0	112	112	2.29
Early Rivers	0	5	4	9	0.18
Early Vic	140	102	0	242	4.95
Emporer Francis	2	5	0	7	0.14
Gold	2	10	175	187	3.83
Hardy Giant	0	0	24	24	0.49
Lambert	8	12	54	74	1.51
Lapins	70	0	0	70	1.43
Rainier	9	10	20	39	0.80
Royal Anne	0	0	75	75	1.54
Sam	8	19	0	27	0.55
Seneca	0	0	20	20	0.41
Sunburst	80	0	0	80	1.64
Ulster	21	40	46	107	2.19
Velvet	0	0	46	46	0.94
Vernon	0	0	98	98	2.01
V-67041	15	0	0	15	0.31
V-680616	14	0	0	14	0.29
V-690616	41	0	0	41	0.84
V-690618	730	48	0	778	15.93
V-69062	137	10	0	147	3.01
V-690620	45	9	0	54	1.11
V-69068	443	29	0	472	9.66
Other Varieties	589	248	867	1,704	34.88
Total	2,714	615	1,556	4,885	100.00
Age as % of Total	55.56	12.59	31.85	100.00	

Table 85 - Sour Cherry Trees by Variety and Age Group, Other Varieties, Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 15 Years	16 Years & Over	Total	Variety as % of Total
English Morello	37	16	14	30	97	4.42
Galaxy	5	91	0	0	96	4.38
June Montmorency	595	0	0	0	595	27.12
Meteor	0	10	1	0	11	0.50
Northstar	11	117	3	6	137	6.24
Other Varieties	46	201	38	973	1,258	57.34
Total	694	435	56	1,009	2,194	100.00
Age as % of Total	31.63	19.83	2.55	45.99	100.00	

Table 86 - Nectarine Trees by Variety and Age Group, Other Varieties, Ontario, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Delicious	0	0	22	22	0.69
Flavortop	52	0	0	52	1.62
Harblaze	421	197	0	618	19.26
Hardired	109	56	21	186	5.80
Harko	190	115	86	391	12.19
HW 103	1	112	0	113	3.52
HW 106	76	40	0	116	3.62
Nectared #1	4	60	15	79	2.46
Nectared #4	35	79	193	307	9.57
Nectared #6	1	15	81	97	3.02
Sunglo	90	111	3	204	6.36
Other Varieties	270	230	523	1,023	31.89
Total	1,249	1,015	944	3,208	100.00
Age as % of Total	38.93	31.64	29.43	100.00	

Table 87 - Pear Trees by Variety and Age Group, Other Varieties, Ontario, 1990

Variety	1 to 5 Years	6 to 10 Years	11 to 20 Years	21 Years & Over	Total	Variety as % of Total
Conference	125	0	0	17	142	1.62
Devoe	30	131	0	12	173	1.98
Giffard	134	6	425	485	1,050	12.00
Gorham	0	0	0	8	8	0.09
Harrow Delight	719	348	153	60	1,280	14.62
Harvest Queen	486	11	1	22	520	5.94
Highland	12	0	0	12	24	0.28
Howell	0	0	20	22	42	0.48
HW 604	0	72	0	0	72	0.82
HW 609	186	25	0	0	211	2.41
HW 610	44	0	0	0	44	0.50
HW 614	96	0	0	0	96	1.10
HW 616	44	0	0	0	44	0.50
HW 619	44	0	0	0	44	0.50
Kieffer	22	0	97	1,322	1,441	16.46
Lawson	0	0	41	74	115	1.31
Luscious	0	90	0	0	90	1.03
Moonglo	0	0	20	0	20	0.23
Red Bartlett	23	0	0	7	30	0.34
Red Clapp	0	3	70	10	83	0.95
Seckel	9	0	17	41	67	0.77
Sheldon	1	1	5	130	137	1.56
Spartlett	127	24	609	0	760	8.68
Star Crimson	0	0	15	0	15	0.17
Swiss Bartlett	313	0	0	0	313	3.58
Other Varieties	951	581	341	60	1,933	22.08
Total	3,366	1,292	1,814	2,282	8,754	100.00
Age as % of Total	38.45	14.76	20.72	26.07	100.00	

Table 88 - Peach Trees by Variety and Age Group, Other Varieties, Ontario, 1990

Variety	1 to 3 Years	4 to 9 Years	10 Years & Over	Total	Variety as % of Total
Bellaire	543	821	464	1,828	5.23
Biscoe	1,364	2,129	915	4,408	12.61
Cardinal	0	60	0	60	0.17
Correll	500	1,190	5	1,695	4.85
Ernared	1,425	574	40	2,039	5.83
Fayette	325	0	0	325	0.93
Glohaven	0	373	444	817	2.34
Harbinger	62	1,140	745	1,947	5.57
HW 228	0	143	0	143	0.41
HW 236	0	0	35	35	0.10
HW 238	0	0	35	35	0.10
HW 248	0	45	0	45	0.13
HW 253	0	44	0	44	0.13
HW 254	70	202	0	272	0.78
HW 257	15	0	0	15	0.04
HW 259	15	0	0	15	0.04
HW 261	30	0	0	30	0.09
Jayhaven	4	825	75	904	2.59
Jerseyglo	96	50	0	146	0.42
Jim Dandee	70	20	0	90	0.26
Kalhaven	0	0	10	10	0.03
Princess Ann	0	136	0	136	0.39
Red Gold	3	28	15	46	0.13
Reliance	8	19	0	27	0.08
Royalvee	0	56	75	131	0.37
Sentinel	708	1,889	1,080	3,677	10.52
Springcrest	0	60	0	60	0.17
Sunshine	0	440	0	440	1.26
Sweet Sue	30	167	0	197	0.56
Velvet	14	158	417	589	1.68
Veteran	0	0	14	14	0.04
V-55125	0	58	375	433	1.24
V-59091	0	0	327	327	0.93
V-72012	0	10	0	10	0.03
V-72013	34	0	0	34	0.10
Other Freestone	1,858	3,472	5,457	10,787	30.87
Total Freestone	7,174	14,109	10,528	31,811	91.02
Elberta	0	5	273	278	0.80
Golden Jubilee	168	61	161	390	1.12
HW 244	0	375	0	375	1.07
Suncling	304	650	914	1,868	5.34
V-68051	0	27	0	27	0.08
Other Clingstone	32	148	19	199	0.57
Total Clingstone	504	1,266	1,367	3,137	8.98
Total	7,678	15,375	11,895	34,948	100.00
Age Group as % of Total	21.97	43.99	34.04	100.00	

Table 89 - Japanese Plum Trees by Variety and Age Group, Other Varieties, Ontario, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Elephant Heart	13	0	0	13	0.52
Grenville	1	20	0	21	0.83
Methley	45	77	246	368	14.59
Ohishi-wase	75	151	0	226	8.96
Pempina	3	13	0	16	0.64
Pipestone	18	0	0	18	0.71
Redheart	17	3	0	20	0.79
Santa Rosa	116	34	0	150	5.95
Toka	11	0	0	11	0.44
Other Varieties	220	96	1,363	1,679	66.57
Total	519	394	1,609	2,522	100.00
Age Group as % of Total	20.58	15.62	63.80	100.00	

Table 90 - European Plum Trees by Variety and Age Group, Other Varieties, Ontario, 1990

Variety	1 to 7 Years	8 to 15 Years	16 Years & Over	Total	Variety as % of Total
Albion	0	16	50	66	0.53
Bradshaw	72	200	34	306	2.47
Earliblue	102	113	5	220	1.78
Early Italian	962	499	72	1,533	12.37
Empress	47	0	0	47	0.38
Frost	49	19	8	76	0.61
Grand Prize	0	435	46	481	3.88
Iroquois	75	104	20	199	1.61
Lombard	31	24	12	67	0.54
Mount Royal	4	6	1	11	0.09
Oneida	0	40	0	40	0.32
Pacific	17	0	0	17	0.14
President	236	50	40	326	2.63
Reine Claude	72	58	27	157	1.27
Ruth Grestetter	0	35	0	35	0.28
V-330218	60	0	0	60	0.48
V-630112	833	5	0	838	6.76
V-63015	719	35	0	754	6.08
V-63023	0	40	0	40	0.32
V-66071	916	127	0	1,043	8.41
V-68011	725	42	0	767	6.19
V-70031	1,159	80	0	1,239	9.99
V-70034	856	4	0	860	6.94
V-70035	0	118	0	118	0.95
V-72331	40	0	0	40	0.32
V-72481	15	0	20	35	0.28
V-72511	10	0	0	10	0.08
V-72521	58	0	0	58	0.47
Other Varieties	2,068	770	116	2,954	23.83
Total	9,126	2,820	451	12,397	100.00
Age Group as % of Total	73.61	22.75	3.64	100.00	